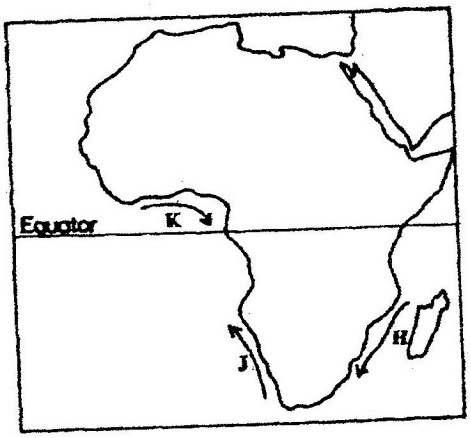
GEOGRAPHY PAPER 1 2006

Answer all the questions in this section

SECTION A

1. (a) How does a sea breeze occur? (2 mks)

(b) Use the map of Africa below to answer questions (b) (i)



(i) Name the ocean currents marked H,J, and K (3 mks)

(ii) State two effects of a warm ocean current on the adjacent coastlands

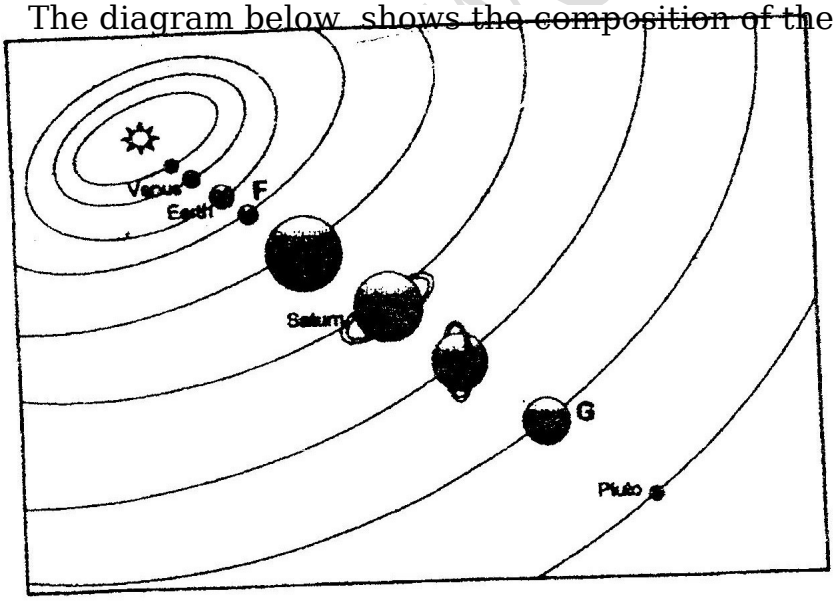
(2 mks)

2. Give two processes involved in each of the following types of weathering

(a) Physical weathering (2 mks)

(b) Chemical weathering (2mks)

3. The diagram below shows the composition of the solar system



(a) Name the planets marked F and G (2 mks)

(b) State three effects of the rotation of the earth on its axis (3 mks)

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4. (a) Name two scales used to measure the intensity of an earthquake (2 mks)
(b) Give three causes of earthquakes (3 mks)

5. The table below represents rainfall and temperature figures for a town in Africa. Use it to answer the questions that follow

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp (^{0}C)	27	28	28	28	27	25	25	24	25	26	27	26
Rainfall (mm)	25	38	99	140	277	439	277	69	142	201	71	25

(a) (i) calculate the annual range of temperature for the town (1 mk)

SECTION B

Answer question 6 and any other two questions from this section

6. Study the map of Nyahururu, 1: 50,000 (sheet 105/4) provided and answer the following questions

(a) (i) Give the six figure grid of the junction where the road to Ndaragwa (D 388) meets with the road to Nyeri & Nanyuki (B5) (2 mks)

(ii) Calculate the bearing of point X from point Y (2mks)

(iii) Name three physical features found along the line XY (3mks)

(b) (i) Draw a square 12 cm by 12 cm to represent the area enclosed by

the Easting 10 and northing 10 to the North- eastern part of the map (1 mk)

(ii) On the square, mark and label

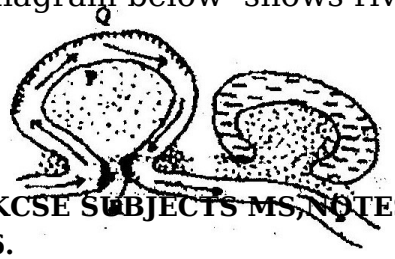
- The main river (1 mk)
- All weather loose surface road (1 mk)
- A forest (1 mk)

(b) Citing evidence from the map, explain two

(i) Physical factors that may have influenced the location of Nyahururu town (4 mks)

(ii) Factors that favour saw milling in the area covered by the map (4 mks)

4. The diagram below shows river Mandera. Use it to answer question (a)



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(a) (i) Name the process that take place at each of the points marked P and Q. (2mks)

(ii) Name the feature formed at the point marked R (1mk)

(iii) Describe how an Ox- bow lake is formed (5 mks)

(b) State five characteristics of a flood plain (5 mks)

(c) Explain three causes of river rejuvenation (6 mks)

(c) Your class is required to carry out a field study of a river

(i) What would be the advantages of dividing the class into groups according to the stages of the long profile of a river? (4mks)

(ii) What would be the disadvantage of using secondary data in this kind of a field study? (2mks)

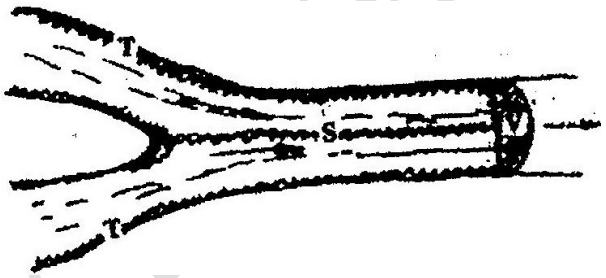
8. (a) (i) What is an ice sheet? (2mks)

(ii) Give two reasons why there are no ice sheets in Kenya (2mks)

(iii) Explain three factors that influence the movement of the ice from the place where it has accumulated (6mks)

(b) Describe how an arête is formed (4mks)

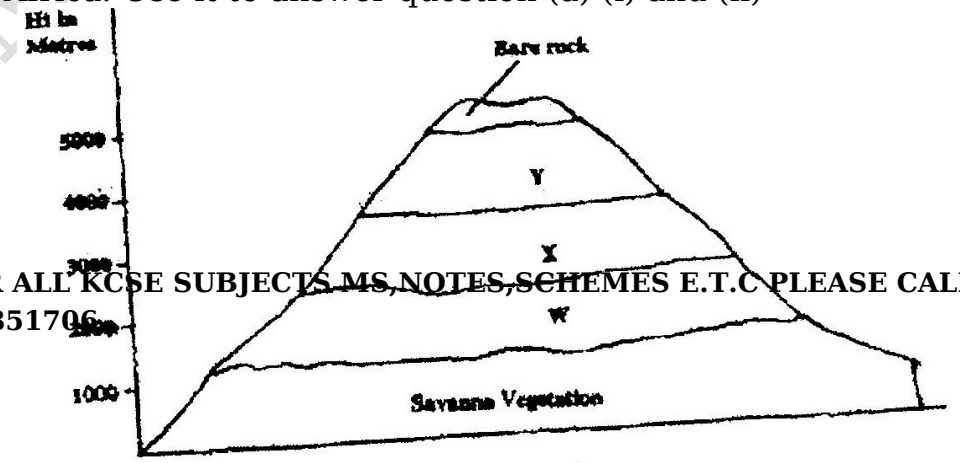
(b) The diagram below shows types of moraines in a valley glacier



(i) Name the type of moraines marked S, T and V (3mks)

(ii) Explain four positive effects of glaciation in lowland areas. (8mks)

9. The diagram below represents zones of natural vegetation on a mountain in Africa. Use it to answer question (a) (i) and (ii)



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a) (i) Name the vegetation zones marked W, X and Y. (3mks)

(ii) Describe the characteristics of the savanna vegetation. (6mks)

(iii) Name the temperate grasslands found in the following countries:

- Canada (1mk)
- Russia (1mk)
- Australia (1mk)

b) Explain three causes of the decline of the areas under forest in Kenya. (6mks)

c) You are supposed to carry out a field study on the uses of vegetation in the area your school.

(i) State three reasons why it would be necessary to visit the area before the day of the study. (3mks)

(ii) Give four uses of you are likely to identify during the study (4mks)

10. a) (i) What is soil catena?

(ii) Draw a labeled diagram to show a well developed soil profile. (5mks)

(iii) State three characteristics of the soils found in the arid regions of Kenya. (3mks)

b) Give three factors that determine the colour of soil.

c) Describe how laterization occurs. (6mks)

d) Explain how the following farming practices cause soil erosion.

(i) Burning (2mks)

(ii) Continuous application of fertilizer on farm lands. (2mks)

(iii) Monocultures. (2mks)

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GEOGRAPHY PAPER II 2006
Answer all the questions in this section
SECTION A

1. (a) Differentiate between transport and communication (2 mks)
   (b) State three causes of the decline in the use of letter writing as means of communication in Kenya (3 mks)

2. (a) Give two methods used to reclaim land in Kenya (2 mks)
   (b) Outline the stages through which land is reclaimed from the sea in the Netherlands (3 mks)

3. The table below represents information on population change in Kenya by province between years 2000 and 2005

Province	**Population in Millions**	
	Years	
	2000	**2005**
Nairobi	2.229	2.751
Central	3.882	4.038
Coast	2.662	2.927
Eastern	4.840	5.120
North-Eastern	1.054	1.438
Nyanza	4.598	4.916
Rift valley	7.386	8.366
Western	5.532	3.885
Total	**30.183**	**33.441**

   (a) Which province had the highest change in population between 2000 and
   2005? (2mks)
   (b) Calculate the percentage increase in population in Kenya between 2000
   and 2005 (2mks)

4. (a) state three physical conditions that are necessary for the growing of cocoa
   (3mks)
   (b) Give three economic problems experienced in cocoa farming in Ghana (3mks)

5. (a) State two reasons why some industries are located near the sources of

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raw materials (2mks)

(b) Give three characteristics of the cottage industry in India (3mks)

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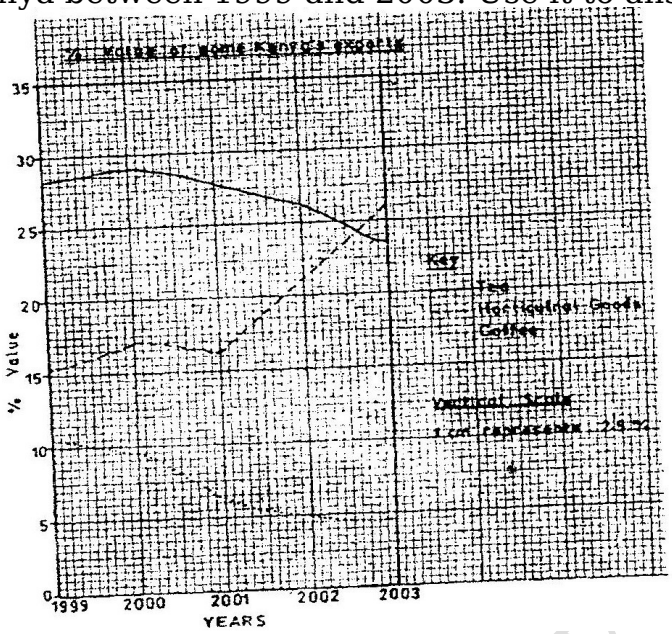
SECTION B

Answer question 6 and any other two questions from this section

6. The graph below shows percentage value of some export commodities from Kenya between 1999 and 2003. Use it to answer questions (a) and (b)



(a) (i) What was the percentage value of the tea exported in the year 2000? (2mks)

(ii) What was the difference in the percentage values of the horticultural products and coffee exports in 1999? (2mks)

(iii) Describe the trend of the value of coffee exports from 1999 to 2003 (3mks)

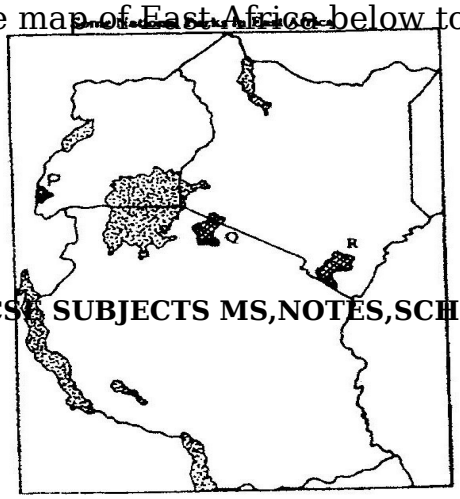
(iv) Explain three factors which may have led to the increased export earnings from horticultural produce in Kenya between years 1999 and 2003 (6mks)

(v) Give three advantages of using simple line graphs to represent data. (3mks)

(b) State four reasons why Kenya's agricultural export earnings are generally low (4mks)

(c) State five reasons why the common market for Eastern and southern Africa (5mks)

7. Use the map of East Africa below to answer question (a) (i)



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(a) (i) Name the national parks marked P, Q, and R (3 mks)

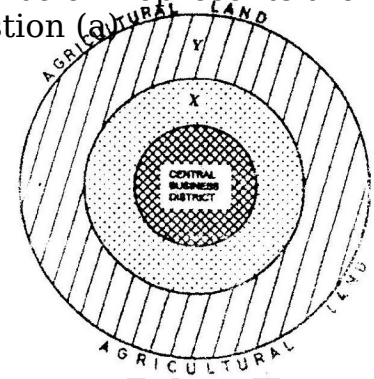
(ii) Explain the difference between the tourist attractions in East Africa and Switzerland under the following sub- headings.

- Climate (2mks)
- Culture (2mks)

(b) Explain five benefits that Kenya derives from tourism

(c) Explain four measures that Kenya should take in order to attract more tourists (8mks)

8. The diagram below represents the functional zones of urban centre. Use it to answer question (a)



(a) Name the zones marked x and y

(ii) List three functions of the central Business District (3mks)

(iii) State two ways in which the residents of the zone labeled AGRICULTURAL LAND benefit from the urban centre (2mks)

(b) State four factors that contribute to the emergence of slums in urban centers (4mks)

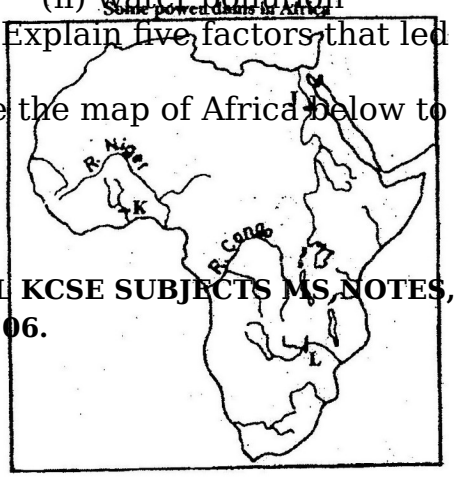
(c) Explain the measures that could be taken to control the following problems in urban centers in Kenya

(i) High rate of crime (2mks)

(ii) water pollution (2mks)

(d) Explain five factors that led to the growth of Kisumu town (10ms)

9. Use the map of Africa below to answer question (a) (i)



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(a) (i) Name the power dams marked J,K and L (3mks)

(ii) Explain four ways in which Kenya has benefited from the development
of the seven forks hydro- electric power scheme. (8mks)

(b) (i) Apart from oil, name two other non-renewable sources of energy (2mks)
(ii) Explain four effects that the increase in oil prices has had on the economies of
the oil- importing countries of Africa. (8mks)

(c) State four ways in which Kenya reduce the use of petroleum as a source of energy
(4mks)

10. (a) (i) Define the tem fisheries (2mks)
(ii) Name two countries in Southern Africa that are important for marine fish production (2mks)

(b) Explain four factors that favour the fishing industry in Japan (8mks)

(c) Describe purse seining as a method of fishing (6mks)

(d) (i) state four problems experienced in the marketing of fish in Kenya
(4mks)
(ii) State three ways in which the Kenya Government is promoting the fishing industry in the country (3mks)

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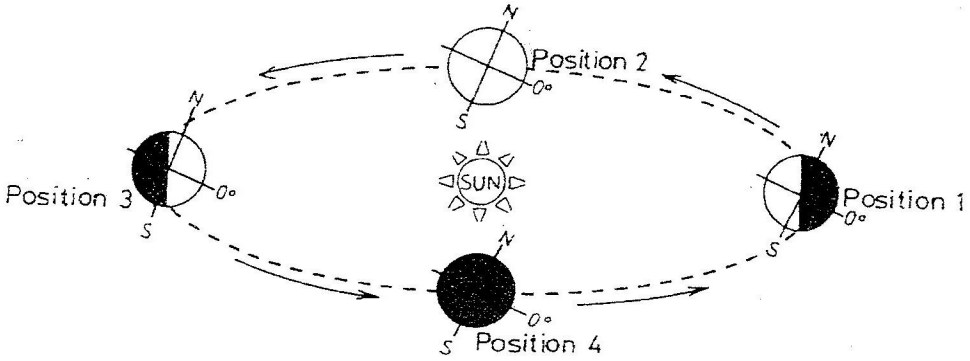
K.C.S.E 2007 GEOGRAPHY PAPER 1

SECTION A

Answer all the questions in this section

1. (a) State two effects of the rotation of the earth (2 mks)

(b) Study the diagram below and answer the questions that follow



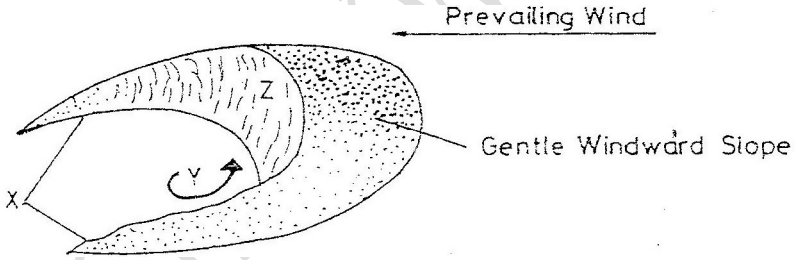
(i) Which movement of the earth is represented by the diagram? (1 mk)

(ii) Give two effects of the movement represented by the diagram (2 mks)

2. (a) name two types of the coastal deltas (2 mks)

(b) State two conditions that lead to deposition of silt at the mouth of a river (2 mks)

3. The diagram below represents a barchan. Use it to answer questions (a)



(a) Name

(i) the feature marked X (1mk)

(ii) The air current marked Y (1mk)

(iii) The slope marked Z (1 mk)

(b) Give two ways in which wind transports its load (2mks)

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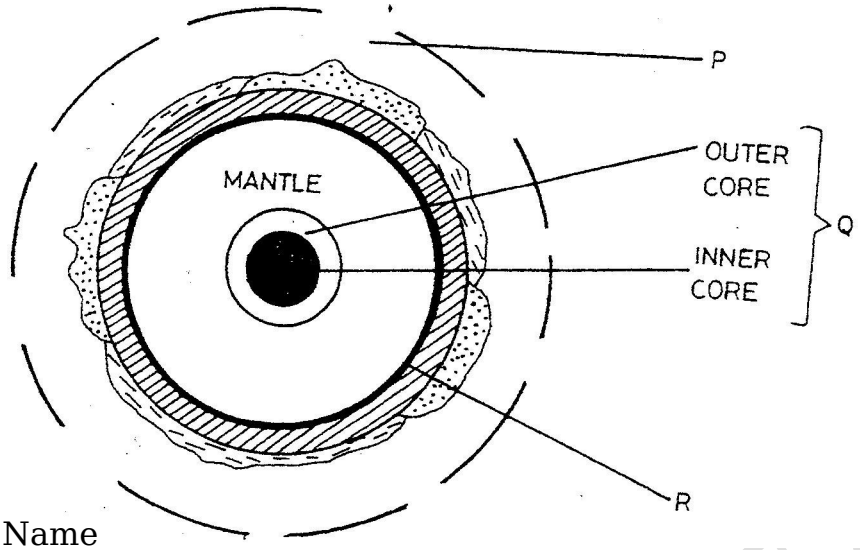
4. The diagram below represents the structure of the earth. Use it to answer question



(a) Name
(i) The parts marked P and Q (2mks)
(ii) The discontinuity marked R (1 mk)

(b) State three characteristics of the mantle (3 mks)

5. (a) Name the two types of earth movements that occur within the earth's crust

(2 mks)

(b) Describe the origin of the continents according to the Theory of continental Drift

(3 mks)

SECTION B

Answer questions 6 and any other two questions in this following

6. Study the map of Taita Hills (1:50,000) sheet 189/4 provided and answer the following questions

(a) (i) What is the bearing of the peak of Mwatunga hill in grid square 3214 from the water tank in grid square 2619? (2 mks)

(ii) What is the length in kilometers of the section of the Mwatate – Voi railway line in the south – eastern part of the map? (2mks)

(b) Draw a rectangle measuring 16cm by 12 cm to represents the area enclosed by the Eastings 24 and 40 and Northings 20 and 30 (1 mk)

On the rectangle, mark and name the following features:
- Mgange hills (1 mk)
- A rock out crop (1 mk)

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- All weather road, bound surface (1 mk)
- River Ruhia (1 mk)
- Ronge forest (1 mk)

(c) Using evidence from the map, explain three factors that have favoured the establishment of the Teita sisal Estates in the Southern part of the area covered by the map (6 mks)

(d) (i) Describe the distribution of settlement in the area covered by the map (5mks)

(ii) Citing evidence from the map, give two economic activities carried out in the area covered by the map other than sisal farming (4mks)

7. (a) Describe the following characteristics of minerals

(i) Colour (2mks)

(ii) Cleavage (2mks)

(iii) Hardness (2mks)

(b) (i) Give two types of igneous rocks (2mks)

(ii) Explain three conditions necessary fro the growth of coral polyps (6mks)

(c) State four uses of rocks (4mks)

(d) You are planning to carry out a field study on the rocks within your school environment

(i) Give two secondary sources of information you would use to prepare for the field study (2mks)

(ii) State why you would need the following items during the field study:

- A fork jembe (1mk)
- A polythene bag (1mk)

(iii) Suppose during the field study you collected marble, sandastone and granite, classify each of these samples according to its mode of formation (3mks)

8. (a) (i) What is climate? (2mks)

(ii) Explain two effects of climate change on the physical environment (4mks)

(b) The table below shows rainfall and temperature figures of station in Africa

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp in ^{0}C	24	24	23	22	19	17	17	18	19	20	22	23
Rainfall in	109	122	130	76	52	34	28	38	70	108	121	120

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mm												

(i) On the graph paper provided, draw a bar graph to represent the rainfall figure. (Use a vertical scale of 1 cm to represent 10mm) (5mks)

(ii) Describe the rainfall pattern of the station (4mks)

(iii) Calculate the average monthly temperature for the station (Show your calculations) (2mks)

(c) You are supposed to carry out study on the weather within your school compound

(i) Describe how you would use the following instruments during the field study

- The hygrometer (3 mks)
- The rain gauge (3 mks)

(ii) State two ways in which the information collected during the field study would be useful to the local community (2 mks)

9. (a) Give three processes that lead to formation of lakes (3 mks)

(b) (i) Describe how lake Victoria was formed (4 mks)

(ii) Explain how lake Victoria influences the climate of the surrounding areas (6 mks)

(c) (i) Apart from Lake Magadi name two other lakes within the rift valley in Kenya that have a high level of salinity (2 mks)

(ii) Explain three causes of salinity in Lake Magadi (6 mks)

(d) Give four economic uses of lakes other than mining (4 mks)

10. (a) (i) What is the difference between weathering and mass wasting?

(ii) Apart from plants, give three other factors that influence the rate of weathering

(iii) Explain two ways in which plants cause weathering (4mks)

(b) (i) List two types of mass wasting other than soil creep (2mks)

(ii) Explain three factors that cause soil creep. (6mks)

(c) Explain four effects of mass wasting on the environment. (8mks)

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K.S.C.E 2007 GEOGRAPHY PAPER 2
SECTION A
Answer all the questions in this section

1. a) Name two exotic breeds of dairy cattle reared in Kenya. (2mks)
   b) State three physical conditions that favour dairy farming in Denmark (3mks)

2 a) State two climatic conditions that favour the growing of oil palm in Nigeria. (2mks)
   b) Give two problems experienced in the marketing of palm oil oil in Nigeria. (2mks)

3. The table below shows petroleum production in thousand barrels per day for countries in the Middle East in April 2006. Use it to answer question (a)

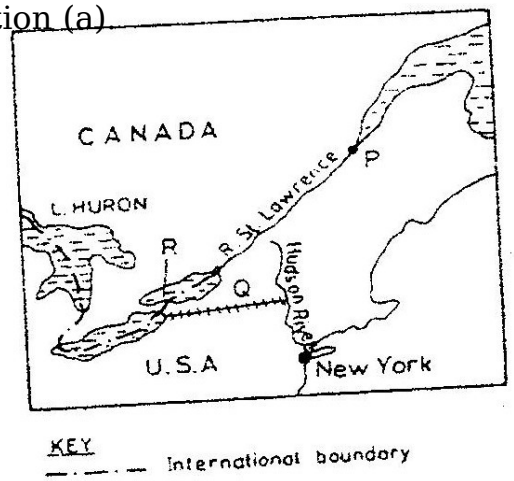
Country	Production in '000" barrels
Iran	3800
Kuwait	2550
Qatar	800
Saudi Arabia	9600
United Arab Emirates	2500
Iraq	1900

   a) (i) What is the difference in production between the highest and the lowest producer (1mk)
   (ii) What is the total amount of petroleum produced in April 2006 in the region? (1mk)

   b) State three conditions that are necessary for the formation of petroleum (3mks)

4. Below is a sketch map showing part of the great Lakes and St. Lawrence Sea way.

Use it to answer question (a)



   a) Name

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(i) the port marked P. (1mk)
(ii) the canal marked Q (1mk)
(iii) the lake marked R (1mk)

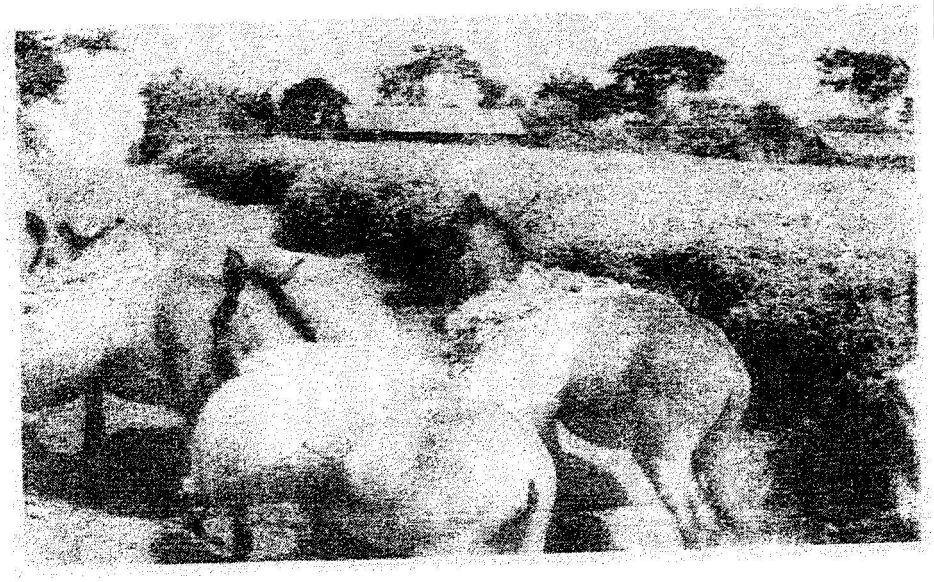
b) State three ways in which the great lakes and st. Lawrence Sea way has contributed to the growth of industries in the region. (3mks)

5.a) Apart from HIV and AIDS. Give two other causes of mortality in East Africa. (2mks)

b) State two ways in which the spread of HIV and AIDS in Kenya may slow down economic development. (2mks)

SECTION B

1. The photograph provided shows a tea growing area in Kenya. Use it to answer questions (a) and (b)



a) (i) What evidence in the photograph shows that this is a ground genera-view type of photograph? (2mks)

(ii) Draw a rectangle measuring 15cm by 10cm to represent the area of the photograph. On it sketch and label the main features shown on the photograph. (5mks)

(iii) Identify two features from the photograph that show that this is a small scale tea farm. (2mks)

b) Describe the stages involved in the cultivation of tea from land preparation to the stage shown on the photograph.

c) (i) Name two districts in the Eastern province where tea is grown. (2mks)
(ii) Explain four ways in which the Kenya Tea development agency (KTDA) assists small scale tea farmers in Kenya (8mks)

7 a) Name three agricultural food processing industries in Kenya. (3mks)

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b) Explain how the following factors have favoured the development of industries in Thika town:
(i) Proximity to Nairobi; (2mks)
(ii) Availability of water; (2mks)
(iii) The hinterland. (2mks)

c) Explain four ways in which Kenya has benefited from industrialization. (8mks)

d) (i) Name two towns in Kenya where moto-vehicle assembling plants are located. (2mks)
(ii) Explain three factors which have favoured the development of car manufacturing industry in Japan. (6mks)

8 a) i) What is forestry? (2mks)
ii) Explain three factors that favour the growth of natural forests on the slopes of Mt. Kenya. (6mks)
iii) State five factors that have led to the reduction of the area under forest on the slopes of Mt Kenya. (5mks)

b) Explain four measures that the government of Kenya is taking to conserve forests in the country.
(8mks)

c) Give the differences in the exploitation of softwood forests in Kenya and Canada under the following sub-headings;
i) Period of harvesting; (2mks)
ii) Transportation (2mks)

9 a) (i) Name three international airports in Kenya. (3mks)
(ii) Give four advantages of air transport over road transport. (4mks)

b) Explain four measures that should be taken to improve road transport in Kenya (8mks)

c) Explain why there are few rail links among African countries. (6mks)

d) Give four reasons why there is limited use of river transport in Africa. (4mks)

10. a) i) State two causes of water pollution. (4mks)
ii) Give two effects of water pollution on the environment (2mks)

b) Explain four methods used to control floods on rivers in Kenya. (8mks)

c) Explain how the following soil conservation methods improve the quality of soil:
(i) Contour farming; (2mks)
(ii) Mulching; (2mks)
(iii) Crop rotation. (2mks)

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d) You intend to carry out a field study on pollution in the local open air market.

(i) State three reasons why it would be necessary for you to visit the market before the actual study. (3mks)

(ii) Give two methods that would to collect information on pollution (2mks)

(iii) Give two follow-up activities you would carry out after the field. (2mks)

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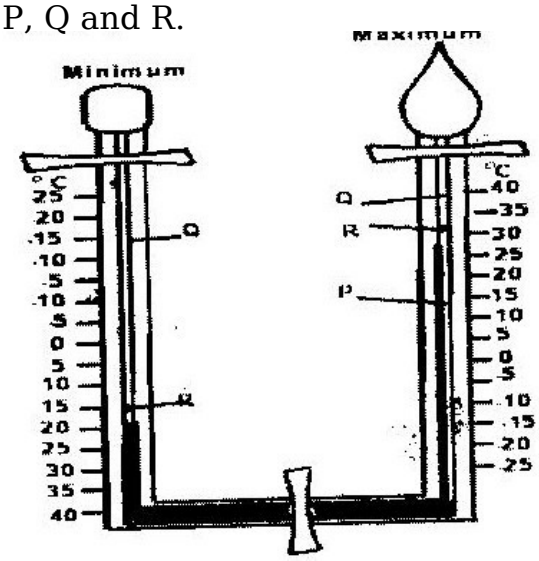
2008 KCSE GEOGRAPHY QUESTIONS
PAPER 1 312/1
SECTION A
Answer all the questions in this section

1 a) Give three reasons why it is necessary to study the plate tectonics theory. (3mks)

b) Name two types of tectonic plate boundaries (2mks)

2. a) The diagram below shows a Six's Thermometer. Name the parts marked P, Q and R. (3mks)



b) The table below shows temperature readings at a weather station for one week

Temp/ Day	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Max. ^{0}C	28	27	28	29	29	29	26
Min. ^{0}C	18	18	20	16	22	21	19

Calculate the following:

i) The diurnal range of temperature for Tuesday: (1mk)

ii) The mean temperature for Saturday. (1mk)

3. a) Give two examples of non-metallic minerals. (2mks)

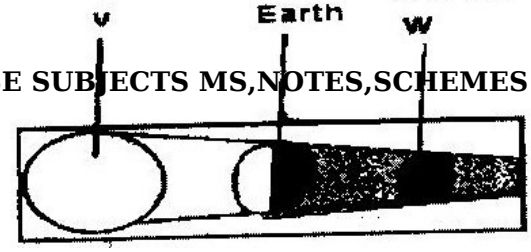
b) Why is industrial diamond used in shaping hard stones and metals? (1mk)

4. a) Apart from water vapour, name two other substances that are suspended in the atmosphere.

b) i) Give two factors that are considered when classifying clouds. (2mks)

ii) Name two types of clouds that give rise to rainfall in the tropical regions. (2mks)

5. a) The diagram below shows an eclipse. Name the features marked V and W. (2mks)



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b) State four proofs that the shape of the earth is spherical. (4mks)

SECTION B

Answer question 6 and any other Two questions from this section

6. a) Study the map of Kericho 1:50,000 provided and answer the following questions.
   i) Give the longitudinal extent of the area covered by the map. (1mk)
   ii) Convert the scale of the map into a statement scale. (2mks)
   iii) What is the approximate height of the hill in the grid squire 6770? (2mks)
   iv) Calculate the area of Kericho Municipality. Give your answer in square kilometers. (2mks)

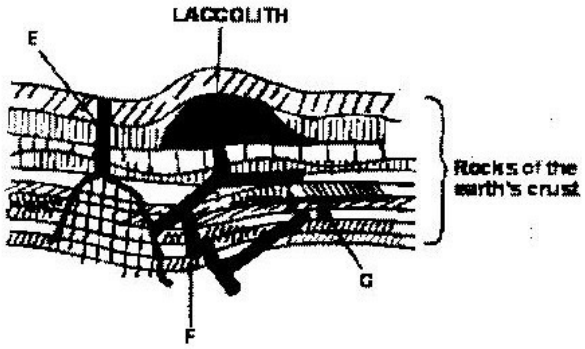
   b) i) Give three types of natural vegetation found to the west of Easting 53 (3mks)
   ii) What is the bearing of the trigonometrical station at grid reference 554668 from the factory at grid reference 610626? (2mks)
   iii) Identify three forms of land transport found to the north of Northing 68 and west of Easting 53? (3mks)

   c) Describe the distribution of settlements in the are covered by the map. (4mks)

   d) Citing evidence from the map, explain three factors that favour the establishment of tea estates in the area covered by the map. (6mks)

7. a) Differentiate between magna and lava. (2mks)

   b) The diagram below shows some intrusive volcanic features.



Name the features marked E, f and G. (3mks)

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c) Describe how the following features are formed and for each give and example from Kenya:

i) A crater (3mks)

ii) A geyser (5mks)

iii) A lava plateau (4mks)

d) Explain four ways in which volcanic features influence human activities. (8mks)

8. a) i) Name two sources of rivers. (2mks)

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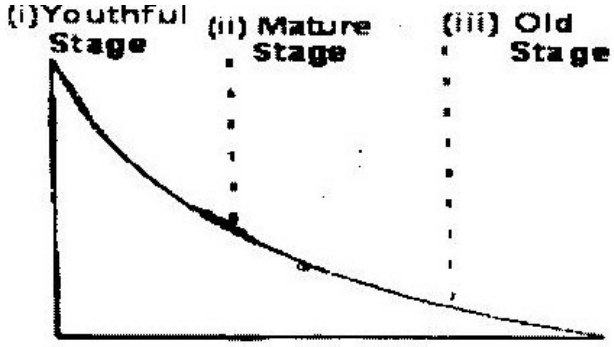
ii) The diagram below shows the three stages of the long profile of a river.



Give two features formed by the rivers in each of the three stages. (6mks)

b) Describe the processes by which a river transports its load. (6mks)

c) Describe each of the following drainage patterns;

i) State two methods you would use to collect data. (3mks)

ii) State three advantages of studying the work of rivers through fieldwork. (3mks)

9. a) i) Describe how ice is formed on a high mountain. (3mks)

ii) Apart from a valley glacier, name two types of ice masses found on Mountains in East Africa.

b) Explain how the movement of a valley glacier is influenced by the following factors:

i) Temperature (2mks)

ii) Width of a glacier channel. (2mks)

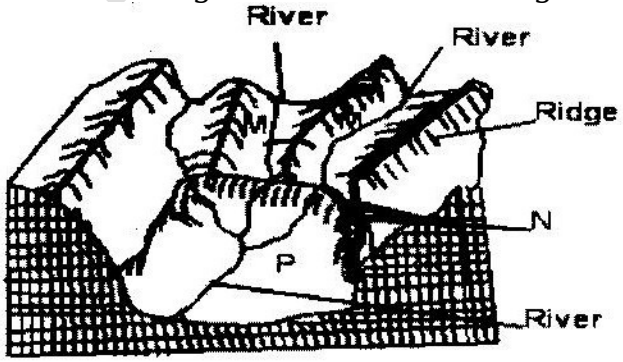
c) Describe the distinctive characteristics of the following features resulting from glacial erosion:

i) A corrie (3mks)

ii) A pyramidal peak (3mks)

iii) a fiord (fjord) (3mks)

d) i) The diagram below shows a glaciated upland area



Name the features marked M, N, and P.

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ii) Describe the process through which a crag and tail is formed (4mks)

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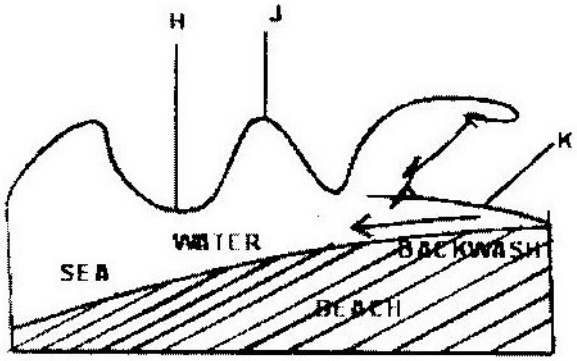
10. a) The diagram below shows a breaking sea wave.



i) Name the features marked M, N, and P.
ii) Describe the process through which a crag and tail is formed. (4mks)

b) Describe three processes of wave erosion along the coast. (2mks)

c) Explain how the following factors influence wave deposition:
i) Gradient of the shore (4mks)
ii) Depth of the sea (4mks)

e) Using well labeled diagrams, describe how a bay bar is formed. (6mks)

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GEOGRAPHY PAPER 2
SECTION A
Answer all the question in this section.

1. State four characteristics of shifting cultivation. (4mks)
2. Give the difference between softwood forests in Kenya and Canada under the following sub-headings.
   a) Distribution of softwood forests (2mks)
   b) Transportation of the logs. (2mks)
3 a) Differentiate between land reclamation and land rehabilitation. (2mks)
   b) State two ways in which each of the following problems experienced at the Mwea irrigation Scheme can be solved;
      i) Low prices of rice (2mks)
      ii) Fluctuating water levels in the irrigation canals. (2mks)
4. Give five reasons why it is necessary to conserve wildlife in Kenya (5mks)
5. a) State two economic benefits of the common Market for Eastern and Southern Africa (COMESA) to the member countries. (2mks)
   b) Give four factors that limit trade among countries of Eastern Africa.

SECTION B
Answer question 6 and any other two questions from this section.

6. The photograph below show cattle rearing in an area in Kenya. Use it to answer question (a)



   a) i) Identify the type of photograph. (1mk)
      ii) Describe the features shown on the photograph. (3mks)
      iii) What three indicators show that the area was experiencing drought
      When the photograph was taken. (3mks)
   b) Discuss nomadic pastoralist in Kenya under the following sub-headings;
      i) The cattle breeds kept (2mks)
      ii) The pattern of movement (2mks)
      iii) Marketing of the animals. (3mks)
   c) i) give three reasons why nomadic pastoralists keep large herds of animals. (3mks)
      ii) Explain four measures taken by the government of Kenya to

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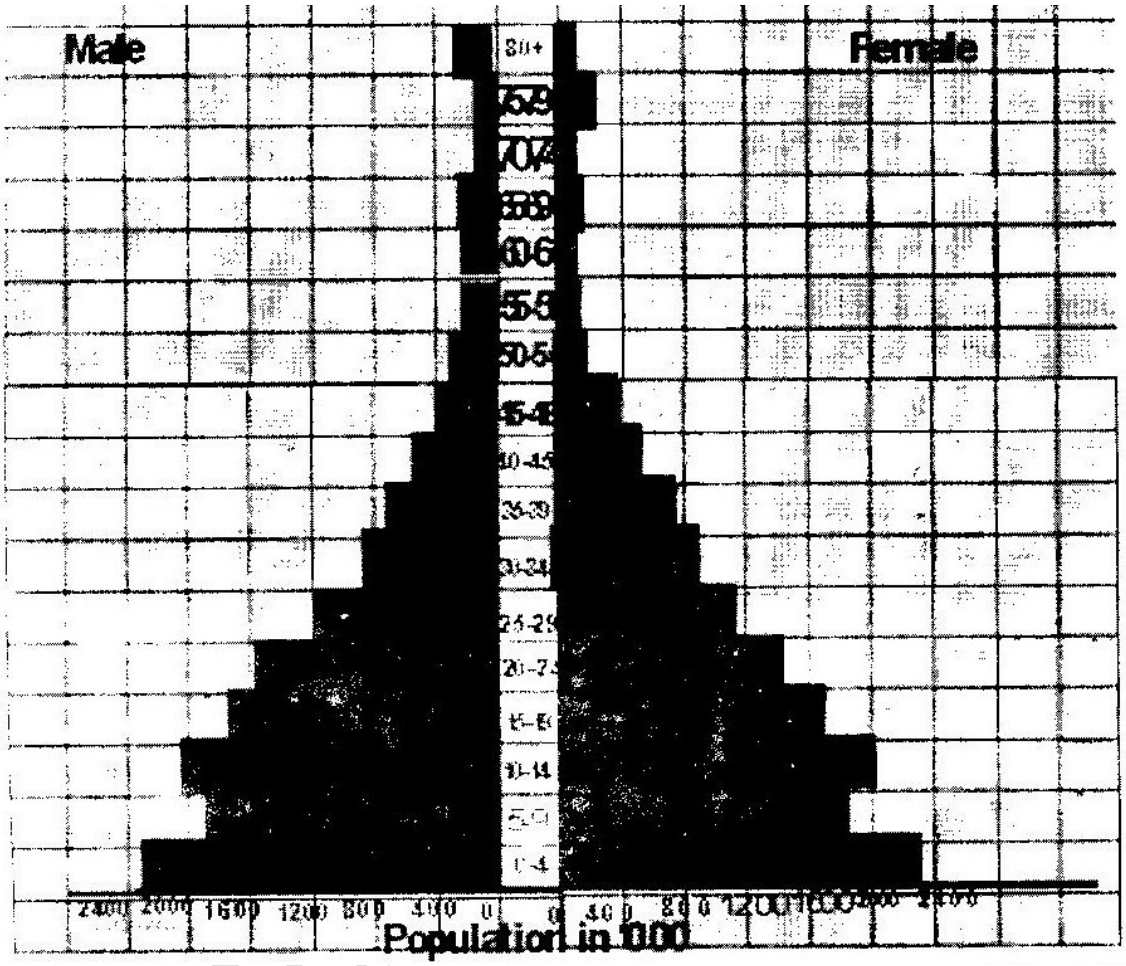
improve beef cattle farming (8mks)

7. a) i) Give two documents from where information on population data is

obtained (2mks)

ii) The pyramid below represents population structure Kenya.



Describe the characteristics of the population as represented by the

pyramid. (3mks)

b) i) In 1989 Kenya population was 21.4 million while in 1999 it was 28.7 million. Calculate the population was 21.4 million. Calculate the population growth rate over the 10 year period. (Show your calculations) (2mks)

ii) Explain two factors which may have led to the large population increase between 1989 and 1999. (4mks)

c) Explain three consequences of high population growth rate. (6mks)

d) Explain four physical factors that influence population distribution in East

Africa. (8mks)

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8. a) The table below shows the quantity of minerals produced in Kenya in tones between years 2001 and 2005. Use it to answer questions (a) (i) and (ii).

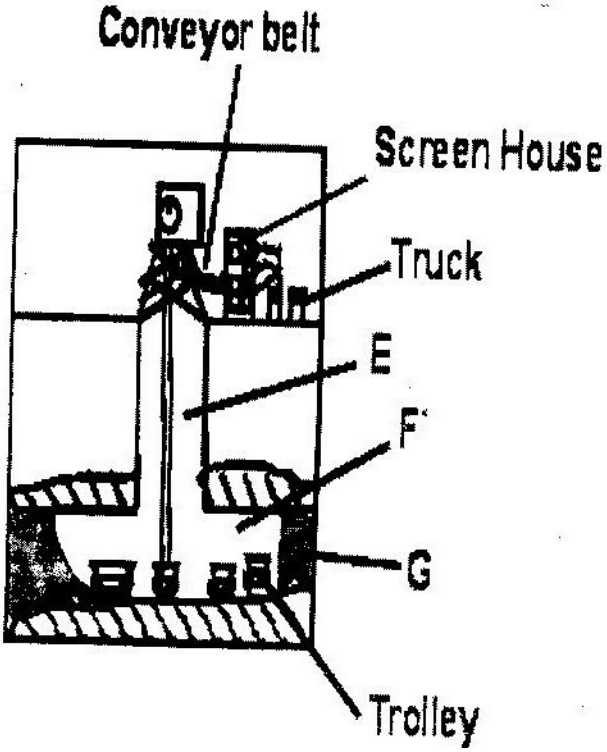
Mineral/ Year	2001	2002	2003	2004	2005
Soda ash	297,789	304, 110	352, 560	353, 835	360, 161
Fluorspar	11,885	85,015	80, 201	117, 986	26, 595
Salt	5,664	18,848	21,199	31,139	26,595
Others	6,093	7,000	4,971	6,315	8,972

Source: Economic Survey 2006

i) Calculate the average annual production of soda ash over the 5 year 5 years period. (2mks)

ii) Calculate the total mineral production for the year 2003. (1mk)

b) The diagram below shows shaft mining.



i) Name the parts marked E, F and G. (3mks)

ii) State two problems associated with shaft mining. (2mks)

c) Explain four ways in which gold mining has contributed to the economy of South Africa. (8mks)

d) Explain three negative effective effects of mining on the environment (6mks)

9. a) State three physical conditions that favour large scale sugarcane faming

in Kenya. (10mks)

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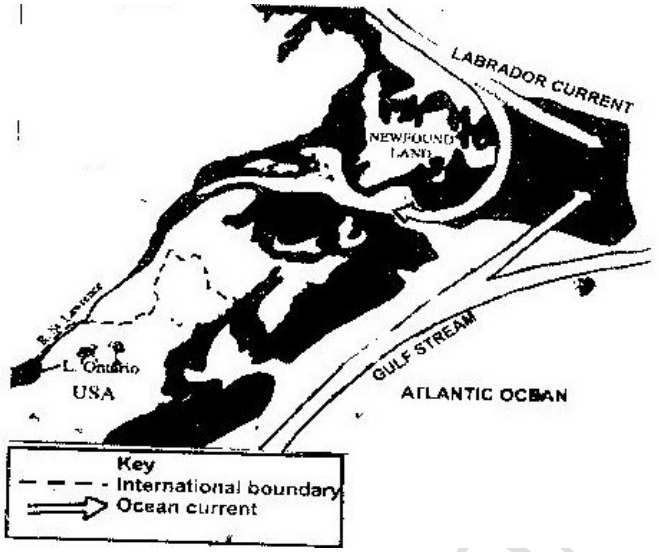
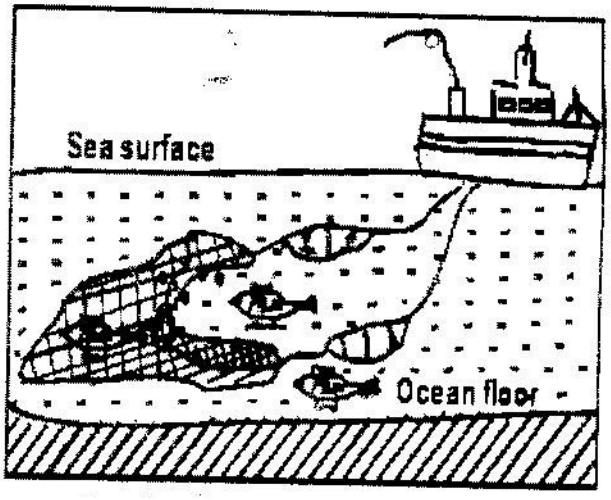
b) Describe the cultivation of sugarcane farming in Kenya. (10mks)
c) Explain five problems facing sugarcane farming in Kenya. (10 mks)
d) Your class visited a sugar factory for a field study on sugar processing.
   i) Outline four stages if sugar processing that the class may have observed. (4mks)
   ii) Name two by-products of sugar that the class may have identified during the study. (2mks)

10. Use the map of North-West Atlantic below to answer questions (a) and (b).

NORTH –WEST ATLANTIC FISHING GROUNDS



a) i) Name the country
   ii) Explain how the two ocean currents shown on the map influence fishing in the area shaded on the map other than ocean currents. (6mks)
b) Explain three factors that favour fishing in the area shaded on the map other than ocean currents (6mks)
c) Explain why in East Africa, fresh water fishing water in the area shaded on the map other than ocean currents. (6mks)
d) The diagram below shows a fishing method



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i) Describe how the method is used in catching fish. (5mks)
ii) List three methods used to preserve fish. (3mks)

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K.C.S.E YEAR 2009 GEOGRAPHY PAPER 1

SECTION A

Answer ALL the questions in this section

1. (a) Differentiate between the processes of the formation of plutonic rocks and volcanic rocks (2 mks)

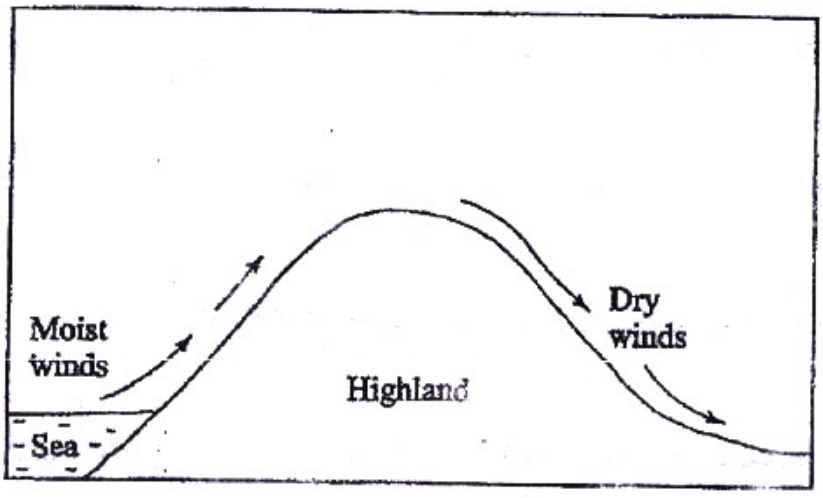
   (b) For each of the following sedimentary rocks, name the resultant rock that forms after metamorphism:

   (i) Sandstone

   (ii) Limestone

   (iii) Clay

2. Use the diagram below to answer the questions that follows



   Outline the process though which the moist winds shown go through to eventually become dry winds (5 mks)

3. (a) What is a line of longitude? (2 mks)

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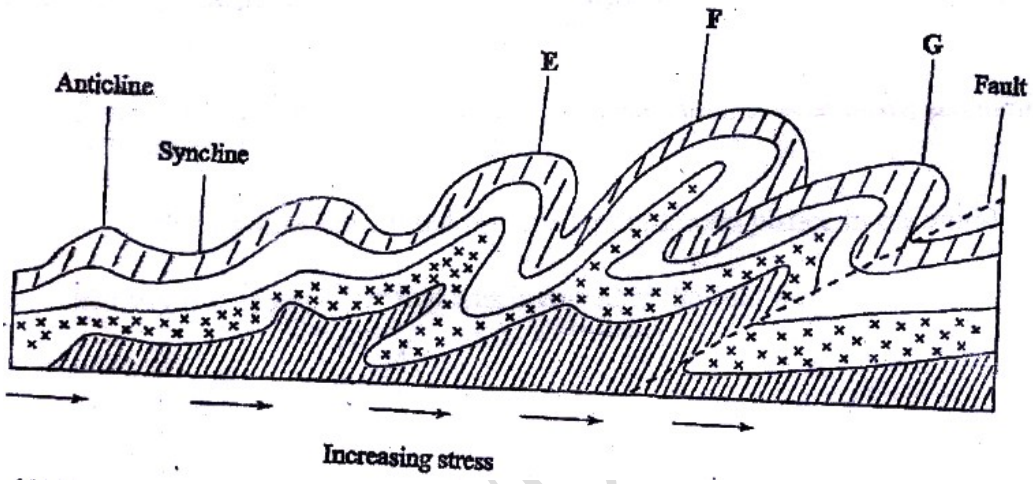
(b) What is the local time at Alexandra 30^0E when the local time at Malindi 40^0 E is 12.00 noon? (2 mks)

4. (a) Outline the steps followed when measuring humidity using a hygrometer (3 mks)

(b) Give two factors that influence relative humidity (2 mks)

5. The diagram below shows some types of folds. Use it to answer question (a)



(a) Name the type of folds marked E, F, and G (3 mks)

(b) In which countries are the following fold mountains found?

(i) Andes (1 mk)

(ii) Cape Ranges (1 mk)

(iii) Alps (1 mk)

6. The diagram below shows a hydrological cycle.

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(a) (i) What do the arrows labeled K, L, and M on the cycle represent?

(3 mks)

(ii) Explain three factors that influence the occurrence of surface run- off

(6 mks)

(b) (i) What is mass wasting? (2 mks)

(ii) Give two processes of slow mass movement (2 mks)

(iii) State two physical conditions that may influence landslides

(2 mks)

(c) Describe the following processes of mass wasting

(i) Rock fall (2 mks)

(ii) Subsidence (2 mks)

(iii) Mud flows (2 mks)

(d) Explain the effect of mass wasting on the following

(i) Tourism (2 mks)

(ii) Soil fertility (2 mks)

7. (a) (i) Name three types of faults (3 mks)

(ii) Apart from compressional forces, explain two other processes that may cause faulting (4 mks)

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(b) With the aid of diagrams, describe how compressional forces may have led to the formation of the great rift valley (8 mks)

(c) Explain five ways in which faulting is of significance to human activities (10 mks)

8. (a) (i) Apart from Bird's Foot delta, name two other types of coastal deltas (2 mks)

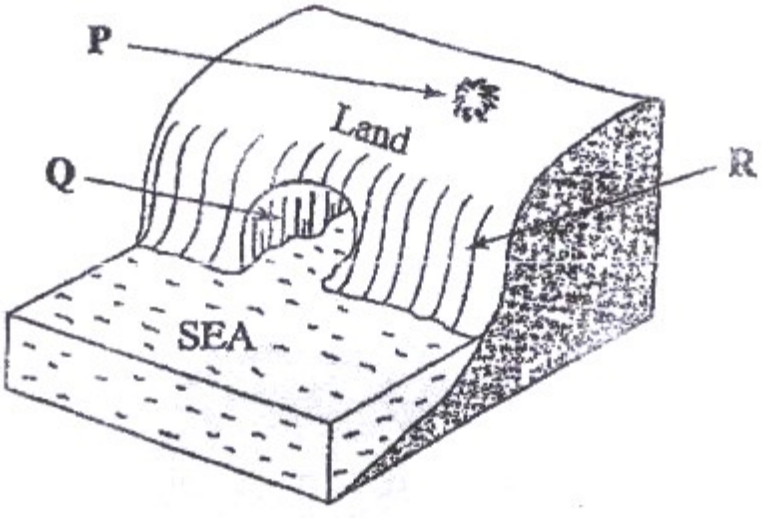
(ii) Draw a diagram to show a Bird's foot delta (3 mks)

(iii) Describe how a Bird's Foot delta is formed (4 mks)

(b) Explain four factors that influence the development of coast (8 mks)

(c) (i) Differentiate between a barrier reef and a fringing reef? (2 mks)

9. The diagram below represents some coastal features. Name the features marked P, Q and R (3 mks)



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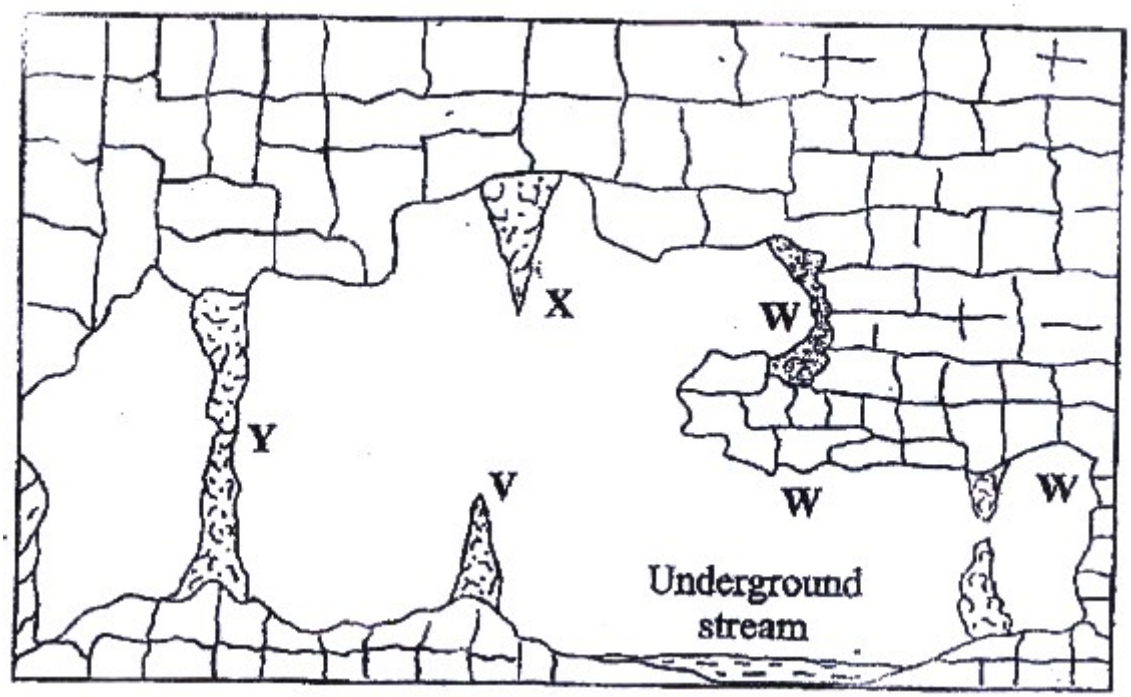
(iii) State three conditions necessary for the formation of a beach

(3 mks)

10. The diagram below represents underground features in a limestone area. Use it to answer question (a)



(a) (i) Name the features marked X, V and W (3 mks)

(ii) Describe how the feature marked Y is formed (6 mks)

(b) (i) What is an artesian basin? (2 mks)

(ii) Explain three factors which influence the formation of features in limestone areas (6 mks)

(c) You are supposed to carry out a field study of an area eroded by water

(i) Give three reasons why you would need a map of the area of study

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(3 mks)

(ii) Name two erosional features you are likely to identify during the field study

(2 mks)

(iii) State three recommendations that you would make from your study to assist

the local community to rehabilitate the eroded area (3 mks)

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K.C.S.E YEAR 2009 GEOGRAPHY PAPER 2

SECTION A

Answer all the questions in this section

1. (a) Name two exotic species of tress planted in Kenya (2 mks)

   (b) State three reasons why it is necessary to carry out afforestation programmes in Kenya (3 mks)

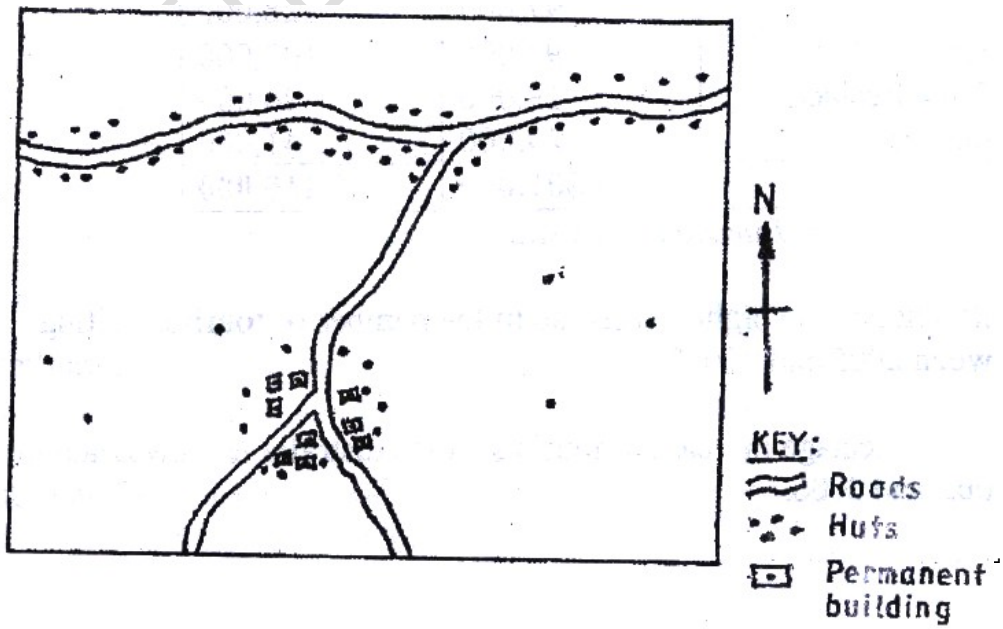
2. (a) Give three physical conditions that favour maize cultivation in Trans Nzoia District in Kenya (3 mks)

3. (a) Outline three physical factors that favoured the development of the Seven Forks hydro- electric power scheme (3 mks)

   (b) State two problems facing hydro- electronic power projects in Kenya (2 mks)

4. Use the sketch map below to answer questions (a)

ROADS AND SETTLEMENTS



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5. (a) Name the main settlement pattern in:

(i) The northern part of the area represented by the sketch map (1 mk)

(ii) The southern part of the area represented by the sketch map (1 mk)

(b) State two ways in which government policy may influence the distribution of human settlements (2 mks)

6. (a) Apart from windstorms, name two other environmental hazards associated with climatic conditions (2 mks)

(b) State three problems caused by windstorms in Kenya (3 mks)

SECTION B

7. Answer questions 6 and other two questions from this section

The table below shows the number of tourists who visited Kenya from various parts of the world in 2005 and 2006. Use it to answer questions (a) and (b)

Place of origin	No. of tourists per year	
	2005	2006
Europe	942, 000	965,000
Africa	120, 000	154, 000
Asia	97,000	128,000
North America	94, 000	103, 000
Australia & New	19,000	24, 000

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Zealand All Other countries	29,000	41, 000
Total	1,301,000	1,415,00

(a) (i) Which continent had the highest increase in the number of tourists visiting Kenya between 2005 and 2006? (2 mks)

(ii) Calculate the percentage increase of tourist from Australia & New Zealand between 2005 and 2006 (2 mks)

(iii) Draw a divided rectangle 15 cm long to represent the number of tourists that visited Kenya in 2006

Show your calculations (10 mks)

(b) (i) state two advantages of using divided rectangles to represent geographical data

(2 mks)

(ii) Give four reasons why in 2005 and 2006 there were more tourists visiting Kenya from Europe compared to those from other parts of the world (4 mks)

(c) Give five reasons why domestic tourism is being encouraged in Kenya

(5 mks)

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8. (a) State three physical conditions that favour coffee growing in the central highlands of Kenya. (3 mks)

(b) Describe the stages involved in coffee production from picking to marketing

(8 mks)

(c) Explain four problems facing coffee farming in Brazil (8 mks)

(d) Your geography class carried out a field study on a coffee farm

(i) State four methods the class may have used to collect data

(4 mks)

(ii) During the field study the class collected data on quantities of coffee produced from the farm in the last five years

State two methods that the class may have used to present the data

(2 mks)

9. (a) (i) What is visible trade? (2 mks)

(ii) List three major imports to Kenya from Japan (3 mks)

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(b) Explain four factors that influence internal trade in Kenya (8 mks)

(c) State four ways in which trade is of significance to Kenya (4 mks)

(c) Explain four benefits which members states of ECOWAS derive from the Formation of the trading bloc (8 mks)

10. (a) (i) Name three agricultural non- food processing industries in Kenya

(3 mks)

(ii) State four ways in which Kenya has benefited from the motor- vehicle Assembly industry (4 mks)

(b) Explain three problems arising from industrialization in Kenya

(6 mks)

(c) Explain three factors which influenced the location of iron and steel industry in the Ruhr region of Germany in the 19th century (6 mks)

(d) You intend to carry out a field study of furniture – making industry in the local market centre

(i) State two reasons why it would be necessary for you to visit the area of study in advance (2 mks)

(ii) For your field study you have prepared a work schedule. State two items you would include in the schedule (2 mks)

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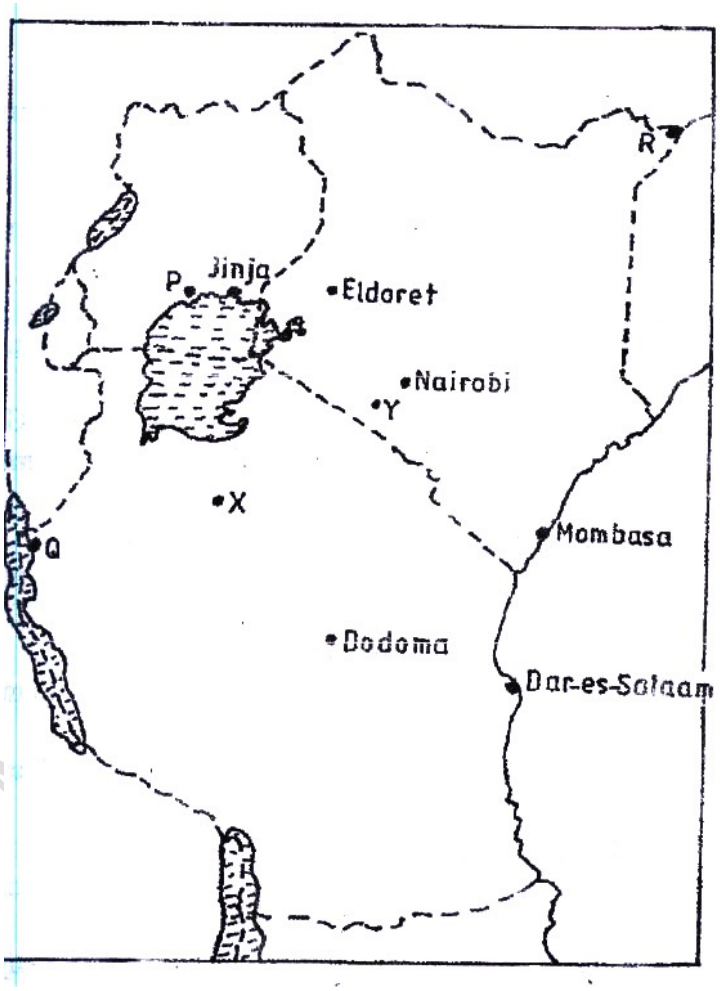
(iii) Give two advantages of studying about furniture making through fieldwork.

The map below shows the location of some urban centres in East Africa



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(a) (i) Name the towns marked P, Q and R (3 mks)

(ii) Name the minerals that influenced the growth of the towns marked X and Y.(2 mks)

(b) Explain four factors that have led to the growth of Eldoret as a major town in Kenya. (8 mks)

(c) Compare the ports of Mombasa and Rotterdam under the following sub-headings:

(i) Site (2 mks)

(ii) Transport links to the interior (2 mks)

(iii) The hinterland (2 mks)

(iv) Port facilities (2 mks)

(d) Explain two ways in which urbanization negatively affects the surrounding agricultural areas (4 mks)

K.C.S.E YEAR 2010 PAPER 1

SECTION A

Answer ALL the questionzs in this section.

1 Give **three** components of the solar system.
(3 marks)

2 *(a)* Identify **two** types of high level clouds.
(2 marks)

(b) Draw a well labelled diagram of a hydrological cycle.
(5 marks)

3 *(a)* Give **three** causes of earthquakes.
(3 marks)

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(b) Name two major earthquake zones of the world.

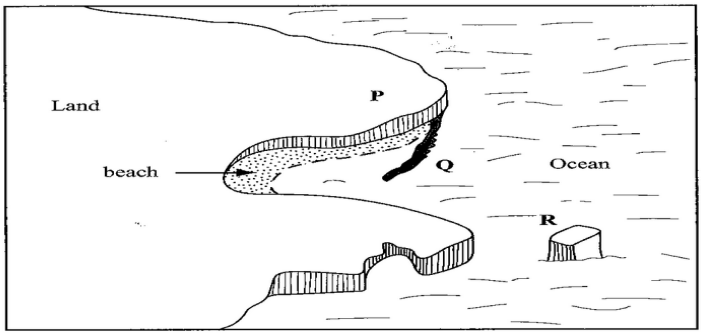
(2 marks)

4 *(a)* What is a rock? (2 mark)

(b) Give **three** characteristics of sedimentary rocks.

(3 marks)

5 *(a)* The diagram below shows some coastal features



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 FOR ALL KCSE SUBJECTS MS,NOTES,SCHEMES E.T.C PLEASE CALL OR WHATSAPP O724351706.

Name the features marked P, Q and R. (3 marks)

(b) State **two** conditions necessary for the formation of a beach.

(2 marks)

SECTION B

*Answer question 6 and any other **TWO** questions from this section.*

6. Study the map of Homa Bay (1:50,000) sheet 129/2 provided and answer the following questions.

(a) A pipeline is to be laid from Lake Victoria along the line marked **X-Y.**

(i) What is the length of the piping to be used?

(Give your answer to the nearest 100 metres).

(2 marks)

(ii) Calculate the bearing of point Y from point X

(2 marks)

(iii) Calculate the area of the part of Lake Victoria shown on the map excluding the marshy

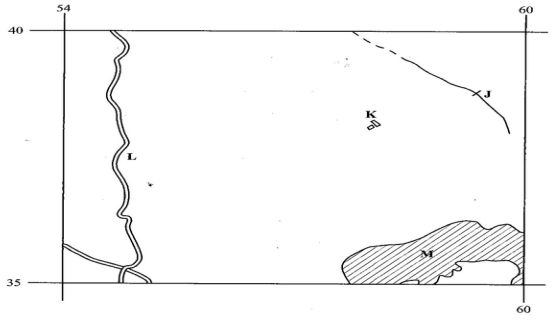
sections. (Give your answer in square kilometers).

(2 marks)

(b) The rectangle below represents the area in the map extract bounded by Eastings 54 and 60 and

Northings 35 and 40. Identify and name the features marked J, K, L and M.

(4 marks)



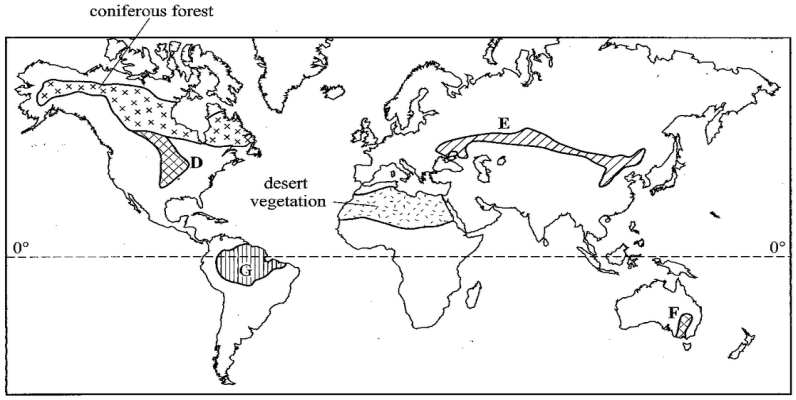
(c) (i) Explain **three** factors which have influenced the distribution of settlements in the area covered by the map. (6 marks)

(ii) Citing evidence from the map, give **two** agricultural activities carried out in the area covered

by the map. (4 marks)

(d) Describe the drainage of the area covered by the map. (5 marks)

7. The map below shows some vegetation regions of the world. Use it to answer questions *(a)* and *(b).* coniferous forest



(a) (i) Name the temperate grasslands marked D, E and F.

(3 marks)

(ii) Describe the characteristics of the natural vegetation found in the shaded area marked G.(6 marks)

(b) Explain how climate has influenced the existence of the following types of vegetation shown on the map.

(i) Desert vegetation; (4 marks)

(ii) Coniferous forest. (4 marks)

(c) You are required to carry out a field study of the natural vegetation within your local environment.

(i) Apart from identifying the different types of plants, state **three** other activities you would carry out during the field study.

(3 marks)

(ii) How would you identify the different types of plants?

(3 marks)

(iii) State **two** ways in which the information collected during the field study would be useful to the local community.

(2 marks)

8. (a) Describe plucking as a process in glacial erosion.

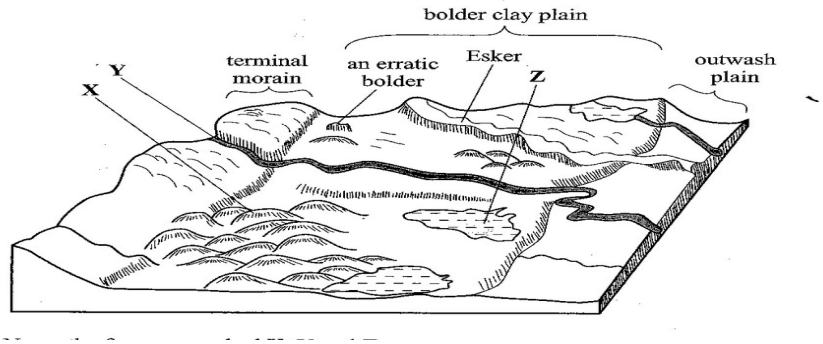
(4 marks)

(b) Explain **three** conditions that lead to glacial deposition.

(6 marks)

(c) The diagram below shows features resulting from glacial deposition on a lowland area.

Direction of movement of ice



(i) Name the features marked X, Y and Z. (3 marks)

(ii) Describe how terminal moraine is formed. (4 marks)

(d) Explain **four** positive effects of glaciation in lowland areas.

(8 marks)

9. (a) Differentiate between river rejuvenation and river capture.

(2 marks)

(b) Give **three** features resulting from;

(i) river rejuvenation; (3 marks)

(ii) river capture. (3 marks)

(c) Explain the **four** ways through which a river transports its load.
(8 marks)

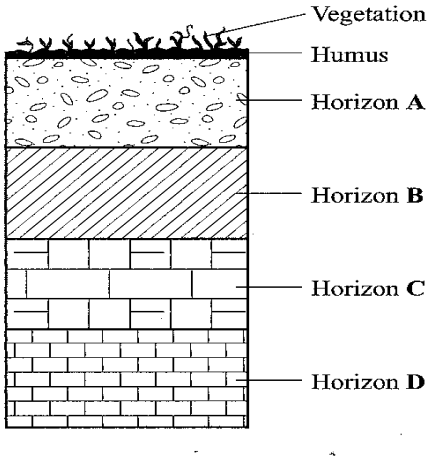
(d) You are planning to carry out a field study on the lower course of a river.

(i) Give **three** reasons why you would require a route map. . (3 marks)

(ii) State three characteristics of a river at the old stage that you are likely to observe during the field study.(3 marks)

(iii) Give **three** follow-up activities you would be involved in after the field study.
(3 marks)

10 The diagram below represents a well developed soil profile. Use it to answer question *(a).*



(a) (i) Describe the characteristics of horizon B.
(3 marks)

(ii) Apart from humus, name **three** other components of soil.
(3 marks)

(iii) State **three** ways in which humus contributes to the quality of soil.
(3 marks)

(b) (i) Differentiate between soil structure and soil texture.
(2 marks)

(ii) Explain how the following factors influence the formation of soil;

• topography; (6 marks)

• time. (2 marks)

(c) Explain how the following farming practices may lead to loss of soil fertility:

(i) overgrazing; (2 marks)

(ii) frequent ploughing; (2 marks)

(iii) continuous irrigation. (2 marks)

PAPER 2

SECTION A

*Answer **all** the questions in this section.*

1. . (a) Name **two** exotic species of trees planted in Kenya. (2 marks)

(b) State **three** reasons why it is necessary to carry out afforestation programmes in Kenya.(3 marks)

2. (a) Give **thee** physical conditions that favour maize cultivation in Trans Nzoia District in Kenya.(3 marks)

(b) State **three** problems facing maize farming in Kenya.

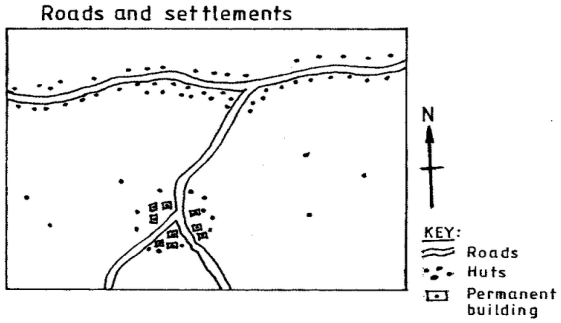
3. (a) Outline **three** physical factors that favoured the development of the Seven Forks hydro-electric power scheme. .. -

(3 marks)

(b) State two problems facing hydro-electric power, projects in Kenya.

(2 marks)

4. Use the sketch map below to answer question (a).



(a) Name the main settlement pattern in:

(i) the northern part of the area represented by the sketch map;

(1 mark)

(ii) the southern part of the area represented by the sketch map.

(1 mark)

(b) State **two** ways in which government policy may influence the distribution of human settlements.

(2 marks)

5. (a) Apart from windstorms, name two other environmental hazards associated with climatic conditions.

(2 marks)

(b) State **three** problems caused by windstorms in Kenya. (3 marks)

SECTION B

*Answer **question 6** and any other two questions from this section.*

6. The table below shows the number of tourists who visited Kenya from various parts of the world in 2005 and 2006. Use it to answer questions (a) and (b).

Place of Origin	**No. of tourists per year**	
	2005	**2006**
Europe	942,000	965,000
Africa	120,000	154,000
Asia	97,000	128,000
North America	94,000	103,000
Australia & New	19,000	24,000
All other countries	29,000	41,000
Total	1,301,000	1,415,000

Source: Central Bureau of Statistics

(a) Which continent had the highest increase in the number of tourists visiting Kenya between 2005 and 2006?

(2 marks)

(ii) Calculate the percentage increase of tourists from Australia & New Zealand between 2005 and 2006. (2 marks)

(iii) Draw a divided rectangle 15cm long to represent the number of tourists that visited Kenya in 2006. Show your calculations.

(10 marks)

(b) (i) State two advantages of using divided rectangles to represent geographical data. (2 marks)

(ii) Give four reasons why in 2005 and 2006 there were more tourists visiting Kenya from Europe compared to those from other parts of the world.

(4 marks)

(c) Give **five** reasons why domestic tourism is being encouraged in Kenya.

(5 marks)

7. (a) State **three** physical conditions that favour coffee growing in the central highlands of Kenya.

(3 marks)

(b) Describe the stages involved in coffee production from picking to marketing.

(8 marks)

(c) Explain **four** problems facing coffee farming in Brazil.

(8 marks)

(d) Your geography class carried out a field study on a coffee farm.

(i) State four methods the class may have used to collect data. (4 marks)

(ii) During the field study, the class collected data on quantities of coffee produced from the farm in the last five years.

State two methods that the class may have used to present the data.

(2 marks)

8. (a)(i) What is visible trade? (2 marks)

(ii) List **three** major imports to Kenya from Japan. (3 marks)

(b) Explain **four** factors that influence internal trade in Kenya.

(8 marks)

(c) State **four** ways in which trade is of significance to Kenya.

(4 marks)

(d) Explain four benefits which member states of ECOWAS derive from the formation of the trading bloc.

(8 marks)

9. (a) (i) Name **three** agricultural non-food processing industries in Kenya.

(3 marks)

(ii) State **four** ways in which Kenya has benefited from the motor-vehicle assembly industry.

(4 marks)

(b) Explain **three** problems arising from industrialization in Kenya.

(6 marks)

(c) Explain **three** factors which influenced the location of iron and steel industry in the Ruhr region of Germany in the 19^{l} Century.

(6 marks)

(d) You intend to carry out a field study of a furniture-making industry in the local market centre.

(i) State **two** reasons why it would be necessary for you to visit the area of study, in advance(2 marks)

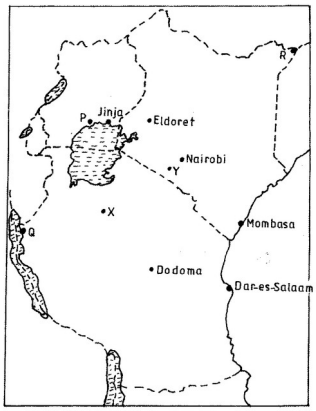
(ii) For your field study you have prepared a work schedule. State **two** items you would include in the schedule.

(2 marks)

(iii) Give **two** advantages of studying about furniture making through fieldwork.

(2 marks)

10. The map below shows the location of some urban centres in East Africa.



(a) (i) Name the towns marked P, Q and R.

(ii) Name the minerals that influenced the growth of the towns marked X and Y. (2 marks)

(b) Explain **four** factors that have led to the growth of Eldoret as a major town in Kenya. (8 marks)

(c) Compare the ports of Mombasa and Rotterdam under the following sub-headings:

(i) site; (2 marks)

(ii) transport links to the interior; (2 marks)

(iii) the hinterland; (2 marks)

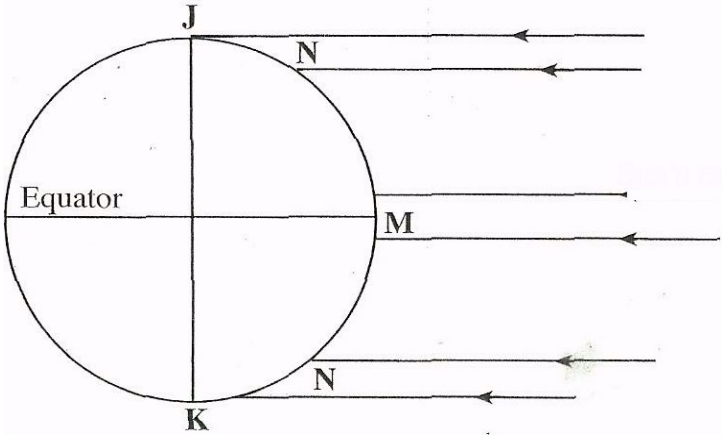
(iv) port facilities. (2 marks)

(d) Explain **two** ways in which urbanization negatively affects the surrounding agricultural areas.(4 marks)

K.C.S.E GEOGRAPHY 2011
PAPER 1
SECTION A

Answer ALL the questions in this section.

1) The diagram below shows the angles of the sun's rays at different latitudes when the sun is at the equator.



Sun's rays

Use it to answer questions (a) and (b).

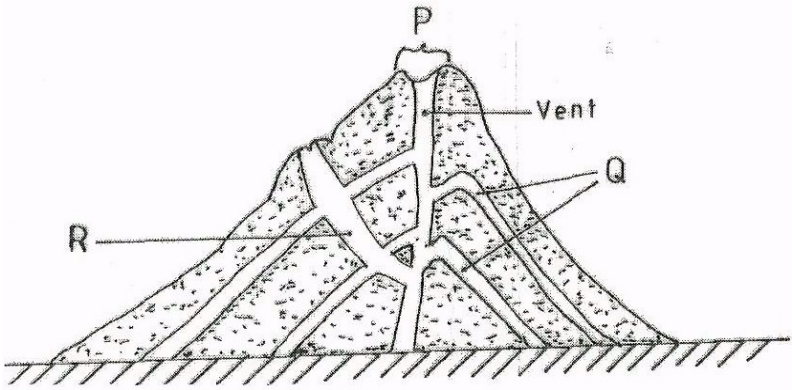
(a) Name the parts of the earth's surface marked J and K. (2 marks)

(b) Give **two** reasons why the intensity of the insolation is higher at M than at N. (2 marks)

2) (a) What is weathering? (2 marks)

(b) Give **three** factors that influence the rate of weathering. The diagram below shows a composite volcano.

(3 marks)



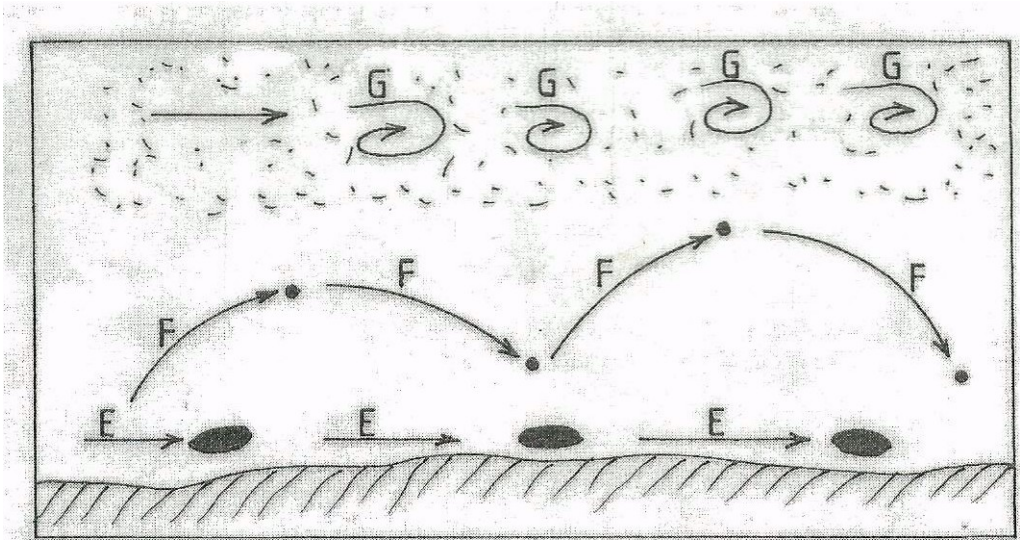
(a) Name the features marked P, Q and R. (3 marks)

(b) How is a parasitic cone formed? (3 marks)

3) (a) What is land breeze? (2 marks)

(b) Give two ways in which sea breezes influence the adjacent land. (2 marks)

4) The diagram below shows ways through which wind transports its load.



(a) Name the three ways labelled E, F and G. (3 marks)

(b) Name three features produced by wind abrasion in arid areas. (3 marks

SECTION B

*Answer **question 6** and any **two** other questions from this section.*

6. Study the map of Nkubu (1:50,000) sheet 122/1 provided and answer the following questions.

(a) (i) Give (he latitudinal and longitudinal position of the North East corner of the map extract.

(2 marks)

(ii) Give **two** methods used to represent relief on the map.
(2 marks)

(iii) What is the relief feature found at the top of Kirui Hill within Mt. Kenya forest. (1 mark)

(iv) Apart from administration, give **three** other services that are provided at Nkubu Divisional Headquarters.
(3 marks)

(b) (i) What is the length in kilometers of the all-weather bound surface road from the bridge at Nkubu water works (509935) to the road junction near Gilimbi (509995)? (2 marks)

(ii) State **three** problems that may be encountered during construction of roads in the area covered by the map. .
(3 marks)

(c) Citing evidence from the map, give **three** reasons why cattle rearing is widespread in Nkubu area.
(6 marks)

(d) Describe the drainage of the area covered by the map.
(6 marks)

7.

(a) State **three** conditions that are necessary for siting a weather station.
(3 marks)

(b) Give **four** reasons why weather forecasting is important.
(4 marks)

The table below shows the temperature and rainfall figures for a weather station in Kenya. Use it to answer question (b) and (c).

Month	,1	F	M	A	M	J	J	A	S	O	N	D
Mean monthly temperature in °C	16.2	16.5	17.1	17.1	16.1	15.2	15.2	15.0	16.0	16.!	16.1	.16.3
Rainfall 2125	100	104	175	232	323	218	196	231	196	152	127	71

Source: Kenya Meteorological Department

Calculate:

(i) The mean annual temperature for the station. (2 marks)

(ii) The annual range of temperature for the station.
(2 marks)

(c) (i) On the graph paper provided, draw a bar graph to represent the rainfall figures for the station. Use a vertical scale of 1cm to represent 20mm. (5 marks)

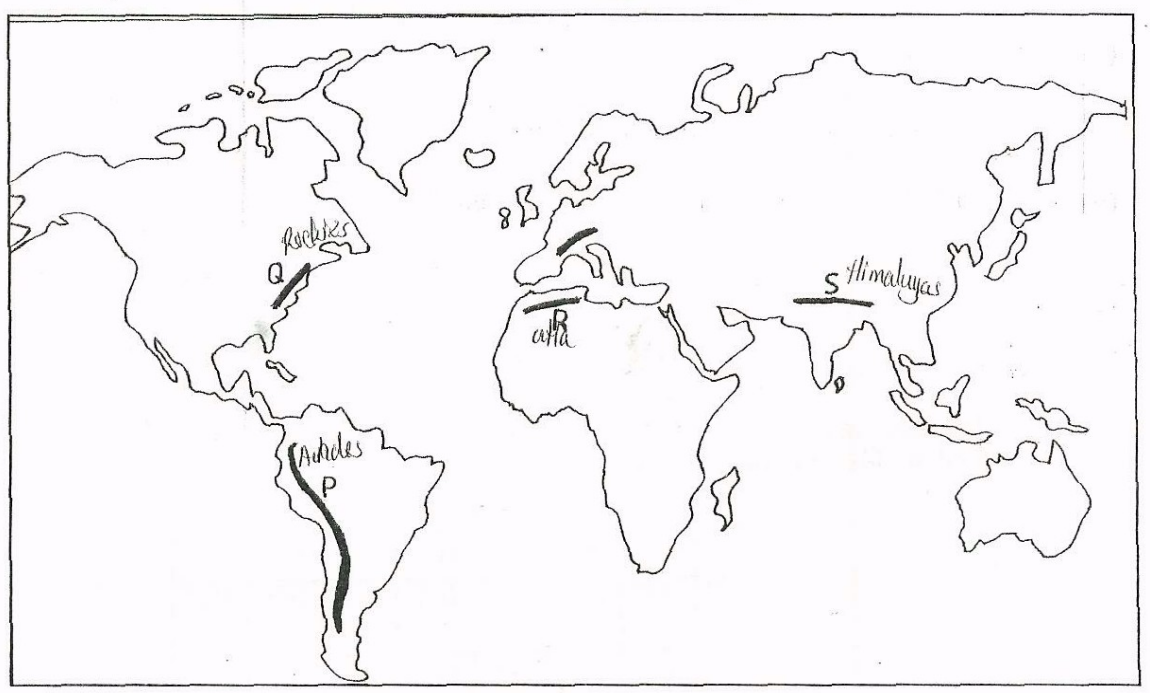
(ii) Describe the characteristics of the climate experienced at the weather station. (3 marks)

(d) Suppose you visited a weather station for a field study on weather;

(i) Give **three** methods you would use to collect data. (3 marks)

(ii) State **three** advantages of studying weather through fieldwork. (3 marks)

8. The map below shows the location of some mountain ranges.



(a) Name the ranges marked P, Q, R and S. (4 marks)

(b) (i) Apart from fold mountains, name **three** other features resulting from folding.

(3 marks)

(ii) With the aid of labelled diagrams, describe how fold mountains are formed.

(10 marks)

(c) Explain the significance of fold mountains to human activities.

(8 marks)

9 (a) (i) What are tides? (2 marks)

(ii) Give **three** causes of ocean currents.

(3 marks)

(iii) Name the **three** ocean currents along the western coast of Africa.

(3 marks)

(b) (i) State **three** characteristics of submerged lowland coasts.

(3 marks)

(ii) Explain **three** factors that determine the rate of coastal erosion. (6 marks)

(c) With the aid of labelled diagrams, describe the process through which a stack is formed (8 marks)

10 (a) (i) What is a lake? (2 marks)

(ii) Name **two** crater lakes in Kenya. (2 marks)

(b) Describe how the following lakes are formed.

(i) corrie lake (4 marks)

(ii) oasis (4 marks)

(iii) lagoon. (4 marks)

(c) (i) Give **three** reasons why some lakes in Kenya have saline water. (3 marks)

(ii) Explain how each of the following has affected lakes in Kenya:

deforestation (2 marks)

industrialization (2 marks)

water needs. (2 marks)

2011

PAPER 2

SECTION A

*Answer **all** the questions in this section.*

1) (a) Name **two** exotic breeds of commercial beef cattle reared in Kenya.

(2 marks)

(b) Outline two similarities of commercial beef cattle farming in Kenya and Argentina. (2 marks)

2) (a) Define the term fisheries.

(2 marks)

(b) State **three** ways in which marine fisheries in Kenya can be conserved.

(3 marks)

3) (a) Name **two** prairie provinces of Canada where wheat is grown on a large scale. (2 marks)

(b) Give **three** physical conditions that favour large scale wheat farming in the prairie provinces of Canada.

(3 marks)

4) (a) State **three** reasons why paper milling industries are located near rivers.

(3 marks)

(b) Name **three** industries in Kenya that use agricultural non-food products as raw materials

(3 marks)

5) (a) State **three** measures which the government of Kenya has taken to reduce infant mortality.

(3 marks)

(b) Give **two** negative effects of low population growth in a country.

(2 marks)

SECTION B

Answer question 6 and any other two questions from this section.



6 Study the photograph below and use it to answer question (a)

(a) (i) What evidence shows that this is a ground general-view photograph?

(2 marks)

(ii) Draw a rectangle measuring 12 cm by 8 cm. (1 mark)

(iii) On the rectangle, sketch and label the following features shown on the photograph:

planted crops (1 mark)

tree stumps (1 mark)

forest (1 mark)

felled trees (1 mark)

the sky. (1 mark)

(iv) Describe the characteristics of the forest shown on the photograph.

(5 marks)

(b) Explain four measures being taken by the Government of Kenya to control human encroachment on forested areas.

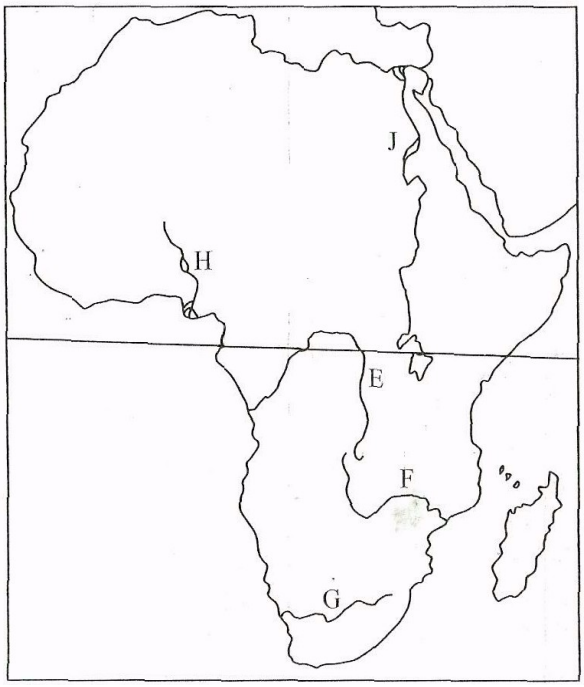
(8 marks)

Give the differences between softwood forests in Kenya and Canada under the following sub headings:

(i) tree harvesting (2 marks)

(ii) marketing of forest products (2 marks)

7. Use the map below to answer question a(i) and (ii).



Name

(i) The rivers marked E, F and G.

(3 marks)

(ii) The human-made lakes marked H and J. (2 marks)

(iii) Explain **four** measures which should be taken to improve inland water transport in Africa. (8 marks)

(b) State **four** ways in which communication contributes to economic development in Kenya. (4 marks)

(c) Explain **four** problems facing railway transport in Africa.

8. (a) (i) Give four factors common to Kenya and the Netherlands that have favoured horticultural farming.

(ii) State three features of horticultural farming in the Netherlands. (3 marks)

(b) The table below shows the quantity and value of Kenya's horticultural exports between June 2008 and June 2009. Use it to answer question

Month	Quantity (metric tonnes)	Value (Ksh in millions)
June 2008	15,300	3,480
July	15,600	3,900
August	14,000	4,000
September	14,900	3,500
October	15,600	4,000
November	14,700	4,020
December	14,000	4,000
January 2009	- 15,900	4,700
February	16,000	4,100
March	17,500	4,400
April	14,900	3,700
May	15,190	3,800
June	14,600	3,600

(i) What was Kenya's total value of exports from horticulture between June 2008 and June 2009? (2 marks)

(ii) Comment on the trend of the, quantity of Kenya's horticultural exports between June 2008 and June 2009.
(3 marks)

(iii) Using the data provided, draw a simple line graph to represent the quantity of Kenya's horticultural exports.
(5 marks)

Use a vertical scale of 1 cm to represent 500 metric tonnes.

Explain four difficulties that farmers in Kenya experience in marketing horticultural produce. (8 marks)

9. (a) What is eco-tourism? (2 marks)

(b) (i) Give four tourist attractions found at the coast of Kenya.
(4 marks)

(ii) Slate **five** problems associated with tourism in Kenya.
(5 marks)

(c) State four ways in which game reserves are of benefit to the communities living near them.
(4 marks)

(d) Explain the differences between tourism in Kenya and Switzerland.
(10 marks)

10(a) Differentiate between a rural settlement and an urban centre.
(2 marks)

(b) Explain how the following physical factors influence human settlement:

(i) relief (6 marks)

(ii) climate.
(4 marks)

(c) Explain the causes of the following problems in urban centres in Kenya:

(i) traffic congestion (4 marks)

(ii) environmental degradation. (4 marks)

(d) (**i**) Name two towns in Kenya that started as agricultural collection centres. (2 marks)

ii) Give three social functions of Kisumu town.
(3 marks)

KCSE 2012

SECTION A
Answer all the questions in this section

1(a) What is the relationship between Geography and Mathematics?
(2 marks)

(b) State four reasons why it is important to study Geography
(4 marks)

2 (a) Name the two layers of discontinuity that are part of the interior structure of earth.
(2 marks)

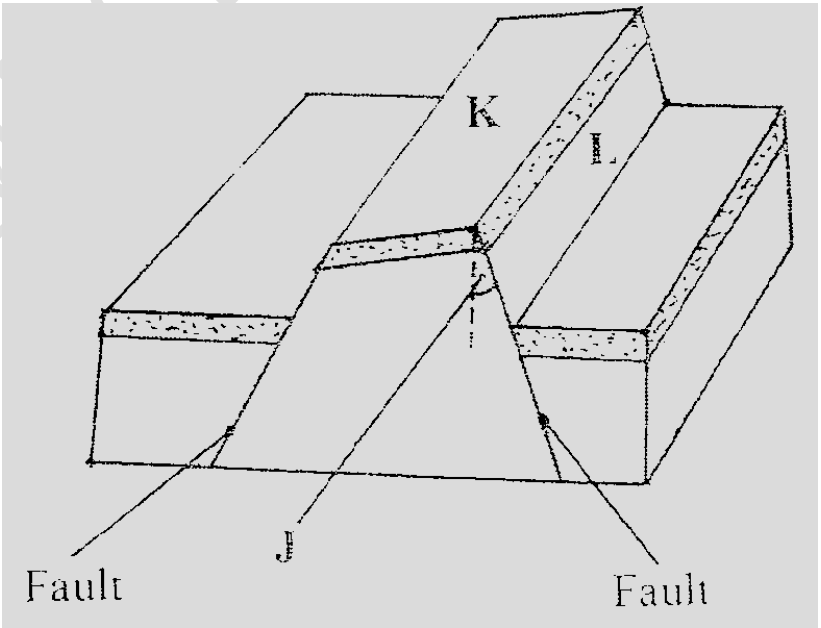
(b) State three characteristics of the outer core in the interior structure of the earth
(3 marks)

3 (a) Name two forms of precipitation that commonly occur in Kenya
(2 marks)

(b) What is a Stevenson's screen? (2 marks)

4 (a) Identify two causes of earth movement (2 marks)

The diagram below shows some features formed as a result of faulting



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(b) Identify:

(i) the angle marked J (1 mark)

(ii) the features marked K and L (2 marks)

5 (a) Identify two sources of water found in a lake
(2 marks)

(b) Give three characteristics of lakes formed due to faulting
(3 marks)

SECTION B

Answer question 6 and any other two questions from this section

6. Study the map of Kitale 1:50,000 (sheet 75/3) provided and answer the following questions.

(a) (i) Identify the two human made features found at the grid square 2320.
(2 marks)

(ii) What is the attitude of the highest point in the area covered by the map?
(2 marks)

(iii) Give three types of natural vegetation found in the area covered by the map
(3 marks)

(b) (i) What is the bearing of the Air Photo Principal Point at grid square 3426 from the Air Photo Principal Point at grid square 2931?
(2 marks)

(ii) Measure the distance of the dry weather road (C 640) from the junction at point M (345142) to the

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junction at point N (416201). Give your answer in Kilometres. (2 marks)

(c) (i) Using a scale of 1cm to r represent 40 metres, draw a cross section from grid reference 410180 to grid reference 500180.
(4 marks)

(ii) On the cross-section, mark and name the following:
- A dry weather road; (1 mark)
- River Kaptarit; (1 mark)
- A ridge (1 mark)

(iii) Calculate the vertical exaggeration (VE) of the section
(2 marks)

(d) Citing evidence from the map, identify five social services offered in Kitale Municipality.
(5 marks)

7 (a) (i) What is a mineral? (2 marks)

(ii) Describe the following characteristics of minerals:
- Luster (2 marks)
- Colour (2 marks)
- Density (2 marks)

(b) (i) Name two examples of extrusive igneous rocks (2 marks)

(ii) Describe three ways in which sedimentary
(9 marks)

(c) Explain the significance of rocks to the economy of Kenya under the following subheadings:

(i) tourism: (2 marks)
(ii) energy; (2 marks)
(iii) water (2 marks)

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8 (a) Explain the following processes of weathering:
(i) hydration (2 marks)
(ii) oxidation (2 marks)
(iii) frost action (2 marks)

(b) Describe how an exfoliation dome is formed
(6 marks)

(c) Explain three physical factors that enhance movement of materials along a slope due to gravity.
(6 marks)

(d) (i) Give two processes of rapid mass movement
(2 marks)

(ii) State four indicators of occurrence of soil creep in an area
(4 marks)

9. (a) (i) Outline two factors that influence the development of drainage patterns
(2 marks)

(ii) Outline five characteristics of a river in its youthful stage
(5 marks)

(b) Describe the following processes of river erosion:

(i) attrition; (2 marks)

(ii) corrosion (4 marks)

(c) Explain three negative effects of rivers to the human environment
(6 marks)

(d) Your class is planning to carry out a field study of a river in its old stage

(i) State three reasons why it would be necessary to pre-visit the area of study.
(3 marks)

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(ii) State three activities you would carry out to determine why deposition occurs at this stage. (3 marks)

10. (a) (i) Define the term soil (2 marks)

(ii) Give two factors that determine soil leaching (2 marks)

(b) Explain how the following factors influence soil formation

(i) parent rock (4 marks)

(ii) biotic factors (4 marks)

(c) (i) State three characteristics of desert soils (6 marks)

(ii) Give two economic uses of soils (2 marks)

(d) You are supposed to carry out a field study of an eroded area

(i) What information would you collect through observation that would indicate that the area is severely eroded? (2 marks)

(ii) Identify three methods you would use to record the observations

(3 marks)

(iii) State three recommendations you would give to control soil erosion

(3 marks)

Paper 2

SECTION A

Answer all the questions in this section

1 (a) What is mining? (2 marks

(b) State four benefits of Soda Ash mining to the economy of Kenya.

(4 marks

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2 (a) Name two methods used in deep sea fishing.
(2 marks)

(b) State three ways in which the government of Kenya is promoting the fishing industry.
(3 marks)

3. (a) Apart from the sun, name three other sources of electricity (3 marks)

(b) Give three advantages of using solar energy.
(3 marks)

4. Give three reasons why it is necessary for the government of Kenya to carry out a national census.
(3 marks)

5 (a) Identify two methods used to control tsetse flies in Kenya.
(2 marks)

(b) State three negative effects of uncollected garbage on the environment
(3 marks)

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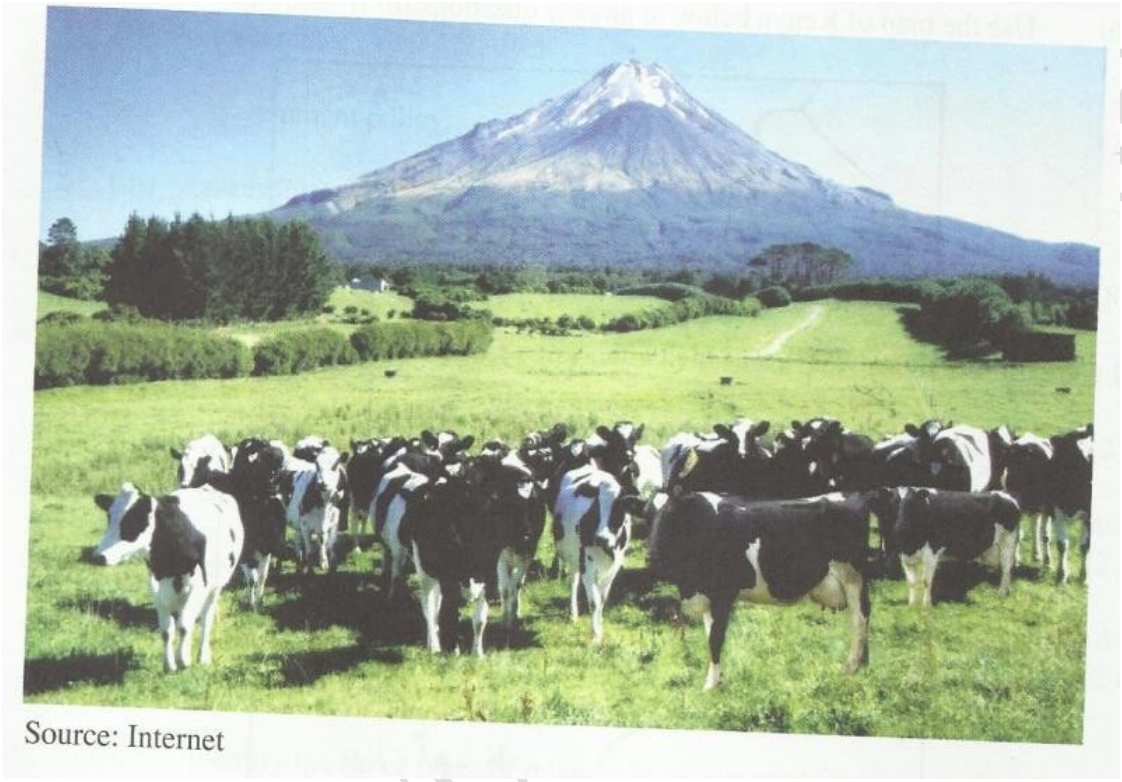
SECTION B

Answer questions 6 and any other two questions in this section

6. Study the photograph below and answer question (a).



Source: Internet

(a) (i) Identify the type of photograph shown above

(1 mark)

(ii) Draw a rectangle measuring 15cm by 10cm to represent the area covered by the photograph.

(1 mark)

(iii) On the rectangle, sketch and label four main features shown on the photograph.

(4 marks)

(iv) Using evidence from the photograph, identify two indicators which show that the area receives high rainfall.

(2 marks)

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(b) (i) Name three exotic types of dairy cattle reared in Kenya.
(3 marks)

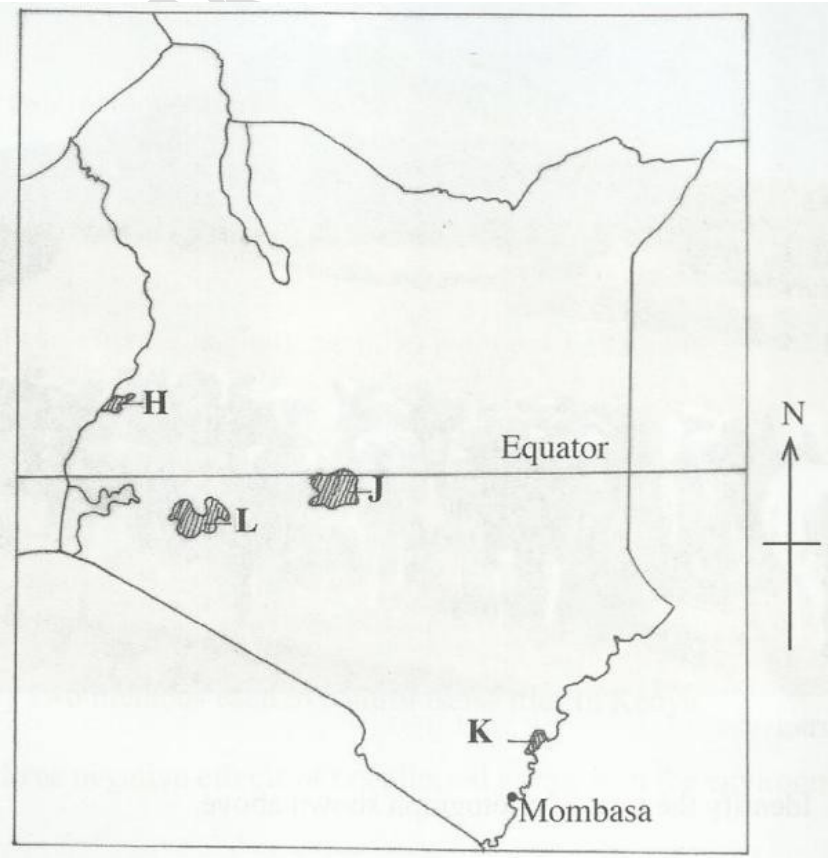
(ii) Explain three human factors that favour dairy farming in the Kenya Highlands.
(6 marks)

(c) Explain four ways in which dairy farming in Kenya is different from dairy farming in Denmark.
(8 marks)

7 (a) (i) What is agro-forestry? (2 marks)

(ii) Give four reasons why agro-forestry is encouraged in Kenya(4

(b) Use the map of Kenya below to answer questions (b) (i) and (ii).



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(i) Name the forest reserves marked H, J and K.

(3 marks)

(ii) Explain four factors that favour the growth of natural forest in the area marked L.

(8 marks

(c) Explain four problems facing forestry in Kenya.

(8 marks)

8 (a) (i) Name two provinces in Canada where wheat is grown on a large scale.

(2 marks)

(ii) State three physical conditions that favour wheat farming in Canada.

(3 marks)

(b) Compare wheat farming in Kenya and Canada under the following subheadings:

(i) research; (2 marks)

(ii) government policy; (2 marks)

(iii) transport (2 marks)

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(c) Explain four problems that affect wheat farming in Canada. (8 marks)

(d) Your Geography class intends to carry out a field study on wheat harvesting in a farm.

(i) State two reasons for preparing a working schedule (2 marks)

(ii) Outline two problems that face wheat harvesting you are likely to find out.

(2 marks)

(iii) Suppose during the field study you used the interview method to collect data, state two limitations of the method. (2 marks)

9 (a) (i) Identify the three types of inland waterways used for transport in Africa.

(3 marks)

(ii) Give four reasons why the government of Kenya is expanding pipeline transport.

(4 marks

(b) (i) State three advantages of railway transport (3 marks)

(ii) State four conditions of roads in Kenya that may lead to motor vehicle accidents.

(4 marks)

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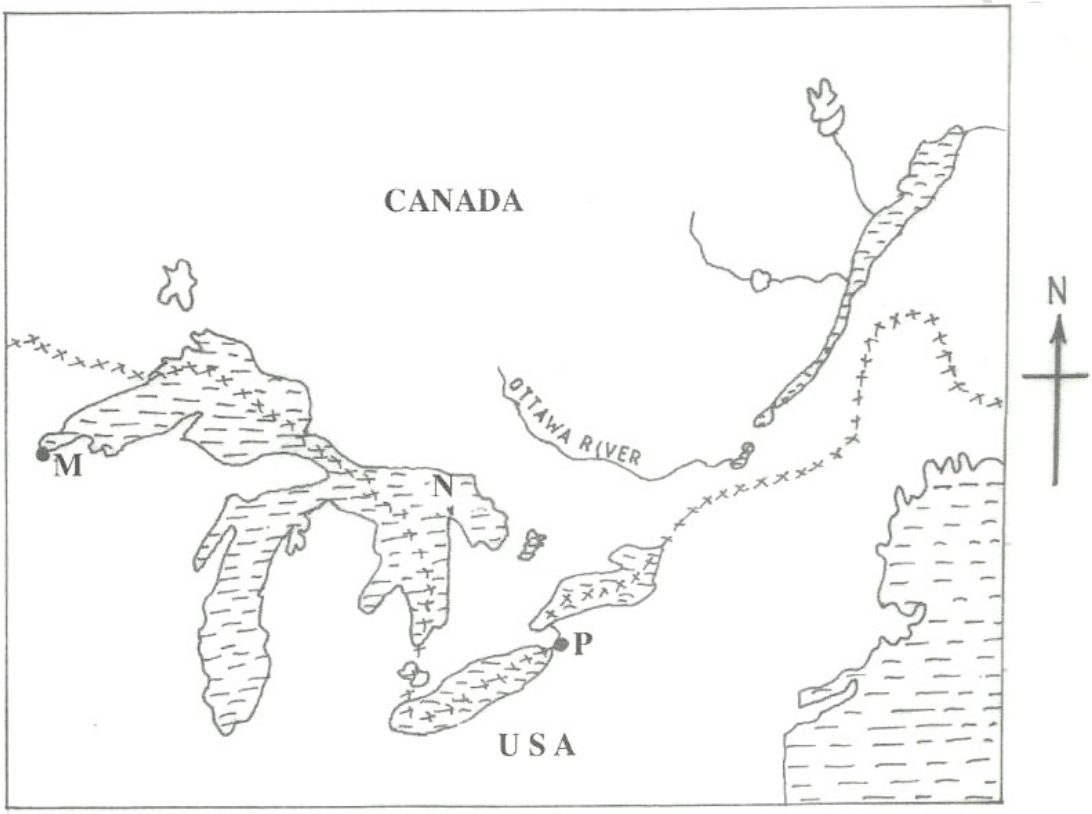
(c) The sketch map below shows the Great Lakes and St. Lawrence Seaway.

Use it to answer question C.



KEY:

xxxxxx – International Boundary.

Name:

MR CHEPK

(i) the ports marked M and P. (2 marks)

(ii) the Lake marked N. (1 mark

(d) Explain four benefits of the Great Lakes and St. Lawrence Seaway to the economies of U.S.A. and Canada.

(8 marks)

KCSE 2013

Geography Paper 1

SECTION A

Answer ALL the questions in this section.

1. a) The diagram below represents the structure of the atmosphere. Use it to answer question (a).

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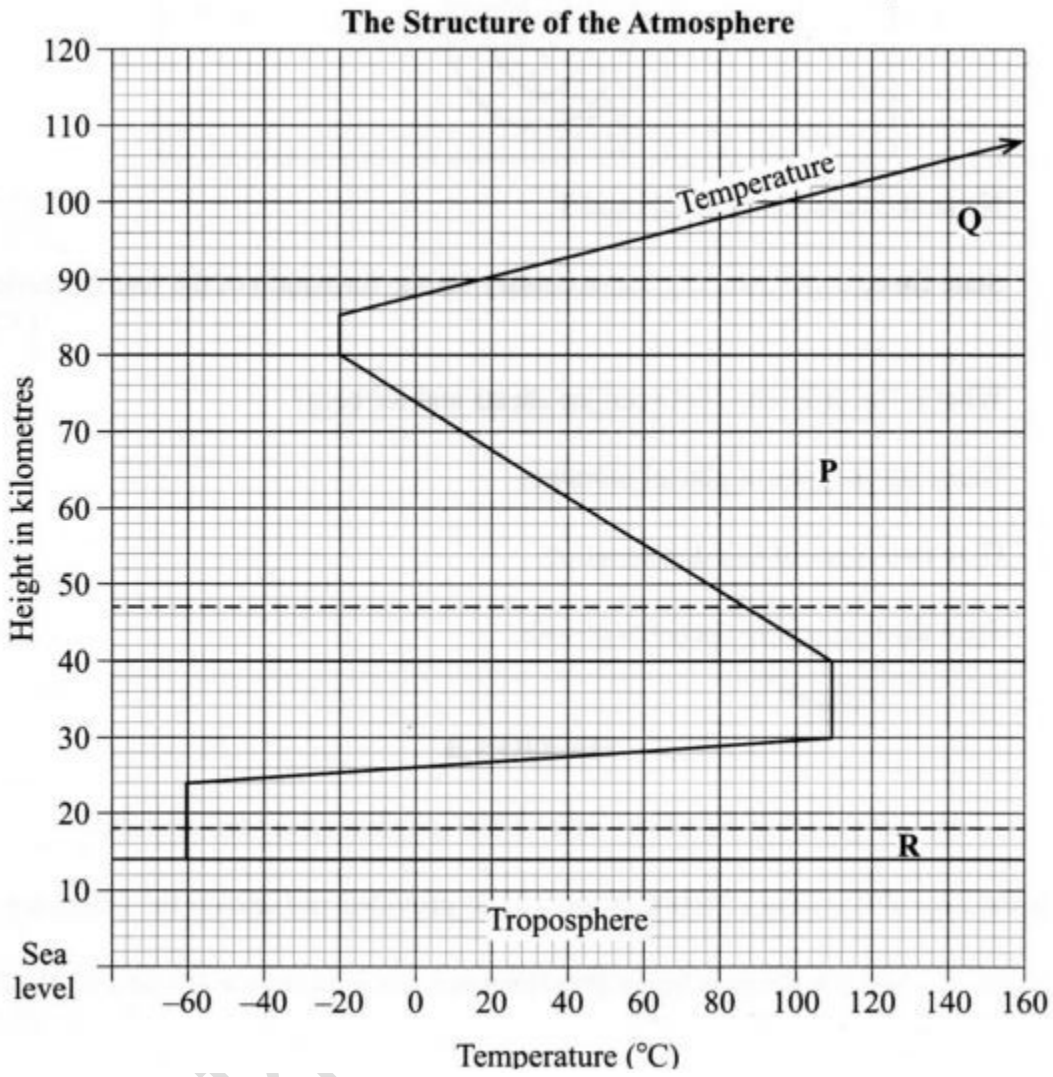


a) Name

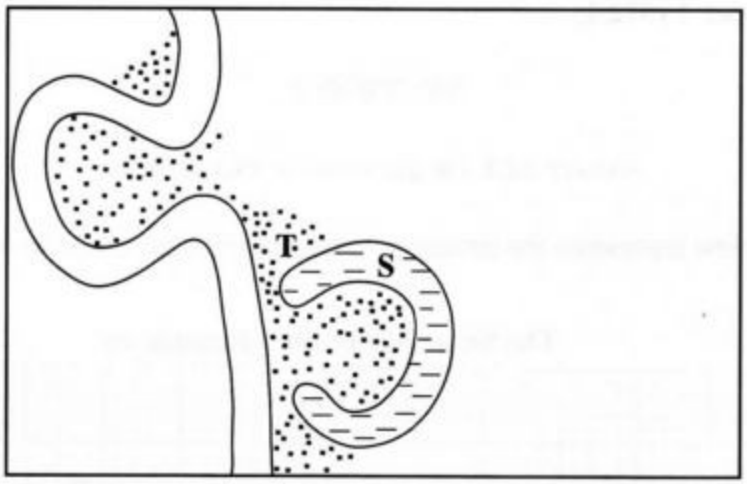
(i) the parts marked P and Q. (2 marks)

(ii) the layer of discontinuity marked R. (1 mark)

b) State two characteristics of the weather conditions in the troposphere. (2 marks)

2. State five factors that influence mass wasting. (5 marks)

3. The diagram below shows a section of a river. Use it to answer the questions that follow.



(a) Name the features marked S and T. (2 marks)

(b) State three conditions that are necessary for the formation of the feature marked S. (3 marks)

(a) What is the difference between ice sheets and ice berg? (2 marks)

(b) Name three types of glacial moraines. (3 marks)

(a) Give two types of soil degeneration. (2 marks)

(b) State three economic benefits of soils. (3 marks)

SECTION B

Answer question 6 and any other TWO questions from this section. Study the map of Karatina l:50,000 (sheet 121/3) provided and answer the following questions

(a) (i) What is the four figure grid reference of the Technical Institute at Mathira? (2 marks)

(ii) What is the bearing of Mount Kenya Campus at grid reference 932568 from the cattle dip at grid reference 990529? (2 marks)

(iii) Measure the distance of the railway line from the Level Crossing at grid square 8652 to the Southem edge of the map. Give your answer in kilometres. (2 marks)

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(b) Draw a rectangle measuring 15 cm by lO.cm to represent the area enclosed by Eastings 90 and 100 and Northing 50 and 60. (1 mark)

b) On the rectangle mark and name the following:

(i) Kirinyaga District;

(ii) All Weather Road Bound Surface;

(iii) Forest;

(iv) Coffee factory.

(4 marks)

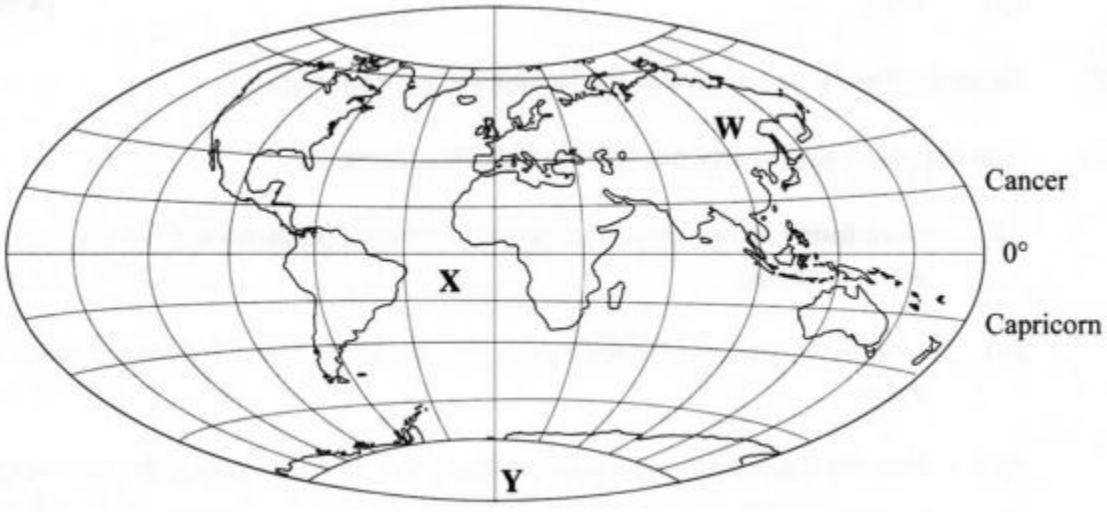
c) Describe the distribution of the natural vegetation in the area covered by the map. (6 marks)

d) Identify two social functions of Karatina town. (2 marks)

e) Citing evidence from the map, explain three factors that favour trading in the area covered by the map. (6 marks)

7 a) Name the first two planets of the solar system. (2 marks)

b) Explain the origin of the earth according to the Nebula Cloud Theory. (8 marks)



I the continent marked W; (1 mark)

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II the ocean marked X; (1 mark)

IH the line of longitude marked Y. (1 mark)

(ii) Give two reasons why the earth has a spherical shape. (4 marks)

(iii) State four effects of the rotation of the earth on its axis. (4 marks)

c) Describe the structure of the earth's crust.

8. a) What is volcanicity?

b) (i) Apart from a sill, name three other intrusive volcanic features. (3 marks)

(ii) Describe how the following features are formed:

c) Explain four negative effects of earthquakes.

9. a) What is vegetation?

I a sill; (3 marks)

H hot springs; (5 marks)

III a caldera. (4 marks)

b) Explain how the following factors influence the distribution of vegetation:

(i)Relief

(ii) soils.

c) Describe the characteristics of the savanna vegetation region. relief (2 marks)

d) You are planning to carry out a field study in a forest.

i. Give four reasons why it is important to seek pemiission from the school administration. (4 marks)

ii. List three sources of information you are likely to use before the actual field study. (3 marks)

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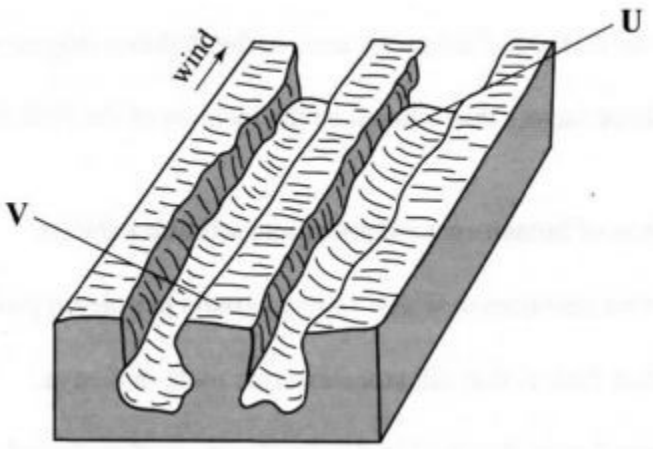
iii .Identify four challenges you are likely to encounter during the field study. (4 marks)

10. (a) (i) Name two major deserts found in Africa. (2 marks)

The diagram below represents features resulting from wind erosion in a desert. Use it to answer question a(ii).



(ii) Name the features marked U and V. (2 marks)

(b) Describe the three processes through which wind transports its load. (6 marks)

(c) Using a well labelled diagram, describe how a barchan is formed. (7 marks)

(d) Explain four ways in which desert features are of significance to human activities. (8 marks)

Paper 2 (312/2)

SECTION A

Answer all the questions in this section.

1 (a) Name the method of irrigation used in the Perkerra irrigation scheme. (1 mark)

(b) State three factors that influenced the location of the Perkerra irrigation scheme. (3 marks)

MR CHEPKWON 51706

2 State four effects of human encroachment into wildlife habitats. I (4 marks)

3 (a) Name two countries to which Kenya exports petroleum products. (2 marks)

(b) State four factors that influence extemal trade in Kenya. (4 marks)

4 (a) State two factors that lead to the development of nucleated settlement patterns. (2 marks)

(b) Identify two differences in the functions of Nairobi and New York. (4 marks)

5 Identify five ways that are used to control floods in Kenya. (5 marks)

SECTION B

Answer question 6 and any other two questions from this section. 6 .The table below shows the approximate population size of four districts in Nairobi in the year 2009.

Use it to answer question (a)

POPULATION OF FOUR DISTRICTS IN NAIROBI

District	Population size
Nairobi West	685,000
Nairobi East	1,144,000
Nairobi North	1,062,000
Westlands	247,000
Total	3,138,000

Source: Kenya National Bureau of Statistics.

Source: Kenya National Bureau of Statistics.

(a) (i) Apart from pie charts, name two other statistical methods that can be used to represent the data in the table. (2 marks)

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(ii) Using a radius of 5 cm. draw a pie chart to represent the data in the table above. Show your calculations. (9 marks)

(iii) Calculate the population growth rate of Nairobi over the 10 year period if the populations was approximately 2,143,000 in 1999. (2 marks)

(b) Explain two factors that may have led to the large population increase in Nairobi between 1999 and 2009. (4 marks)

(c) Explain four positive effects of low population growth in a country. (8 marks)

7. The map below shows the location of some minerals in East Africa.

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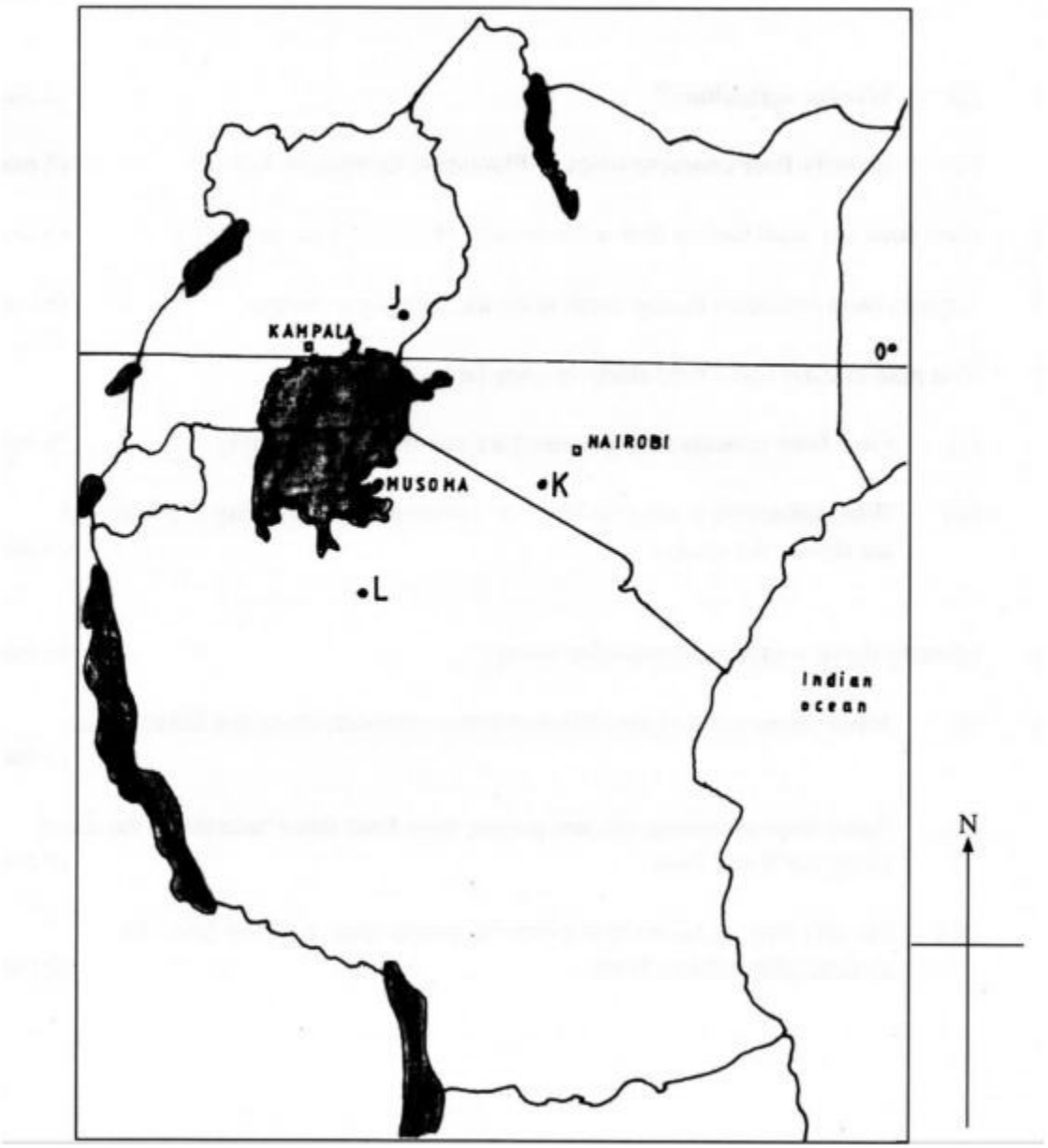

a) Name the minerals mined in the areas marked J , K and L. (3 marks)

b) Explain how the following factors influence the exploitation of minerals:

(i) mode of occurrence of minerals; (4 marks)

(ii) transport; (4 marks)

(iii) level of technology. (4 marks)

c) Describe the opencast method of mining. (4 marks)

d) Explain three benefits of petroleum mining to the economies of Middle East Countries. (6 marks)

8. a) (i) What is agriculture? (2 marks)

(ii) Identify four characteristics of Plantation farming in Kenya. (4 marks)

b) Give four physical factors that influence the growing of tea in Kenya. (4 marks)

c)Explain four problems facing small scale tea farming in Kenya. (8 marks)

d) You plan to carry out a field study in a tea farm.

(i) Give four reasons why you need a route map for the study. (4 marks)

(ii) What information are you likely to gather about marketing of processed tea during the study? (3 marks)

9. a) Identify three sources of renewable energy. (3 marks)

b) (i) Name three main Hydro Electric Power Stations along the River Tana. (3 marks)

(ii) Apart from providing electric power, state four other benefits of the dams along the River Tana. (4 marks)

(iii) Identify two problems that affect the production of power from the stations along River Tana. (2 marks)

(c) Explain four measures the Government of Kenya has taken to conserve energy. (8 marks)

(d) Some students carried out a field study on sources of energy by sampling the households around their school.

(i) Identify two sampling techniques the students may have used during the study. (2 marks)

(ii) Give three advantages of sampling the households for the study. (3 marks)

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(a) Differentiate manufacturing industries from tertiary industries. (2 marks)

(b) Explain why the Government of Kenya encourages the setting up of industries in rural areas. (8 marks)

(c) Explain four factors that have contributed to the development of electronics industry in Japan. (8 marks)

(d) You intend to carry out a field study in a nearby post office.

(i) Identify two characteristics of a good hypothesis for the study. (2 marks)

(ii) State three advantages of using the interview method to collect data during the study. (3 marks)

(iii) Give two challenges facing postal services that you are likely to find out during the study. (2 marks)

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2014

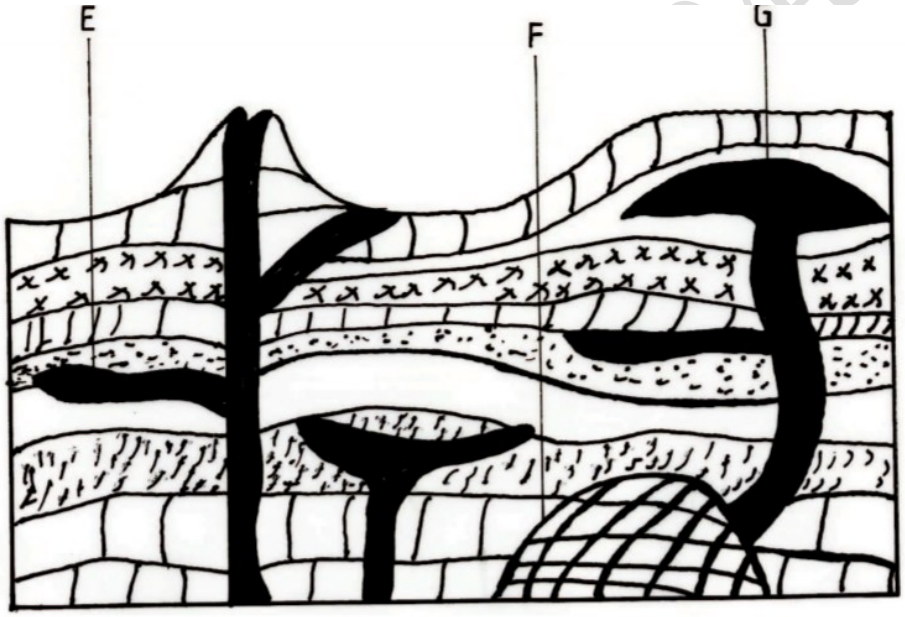
paper 1

Section A: (25 marks)

Answer ALL the questions in this section.

1. Name two types of hypabyssal rocks. (2 marks)

2. (a) The diagram below shows intrusive volcanic features.



Name the features marked E, F and G.

(b) Name two active volcanoes in Kenya.

3. (a) Give three processes in the hydrological cycle.

(b) State four factors that facilitate deposition in rivers.

4. (a) Explain two reasons why wind is the dominant agent of erosion in arid areas.

(b) Identify two features formed as a result of wind deposition in arid areas.

5. (a) Describe podzolization as a process of leaching. (2 marks)

(b) State three ways in which mulching helps in soil conservation.

(3 marks)

Section B

Answer question 6 and any other TWO questions from this section

6. Study the map of Migwani 1:50,000 (sheet 151/1) provided and answer the following questions.

(a) (i) Give the longitudinal extent of the area covered by the map. (2 marks)

(ii) What is the magnetic variation of the map? (1 mark)(iii) Give the six-figure grid reference for the junction of the roads D503 and D507. (2 marks)

(b)(i) Using a vertical scale of l cm to represent 100 metres, draw a cross section along the line marked J -K. (4 marks)

(ii) On it, mark and label the following:

- footpath; (1 mark)
- road; (1 mark)
- water pipeline; (l mark)
- steep slope. (1 mark)

(iii) Calculate the vertical exaggeration of the cross-section. (2 marks)

(c) Citing evidence from the map, give three economic activities carried out in the area covered by the map. (6 marks)

(d) Explain how relief has influenced the distribution of settlement in the area covered by the map. (4 marks)

7. (a) (i) Describe the solar system. (2 marks)

(ii) The local time at Manaul 60°W is 11.30 a.m. What is the time in Nairobi 37° E? (3 marks)

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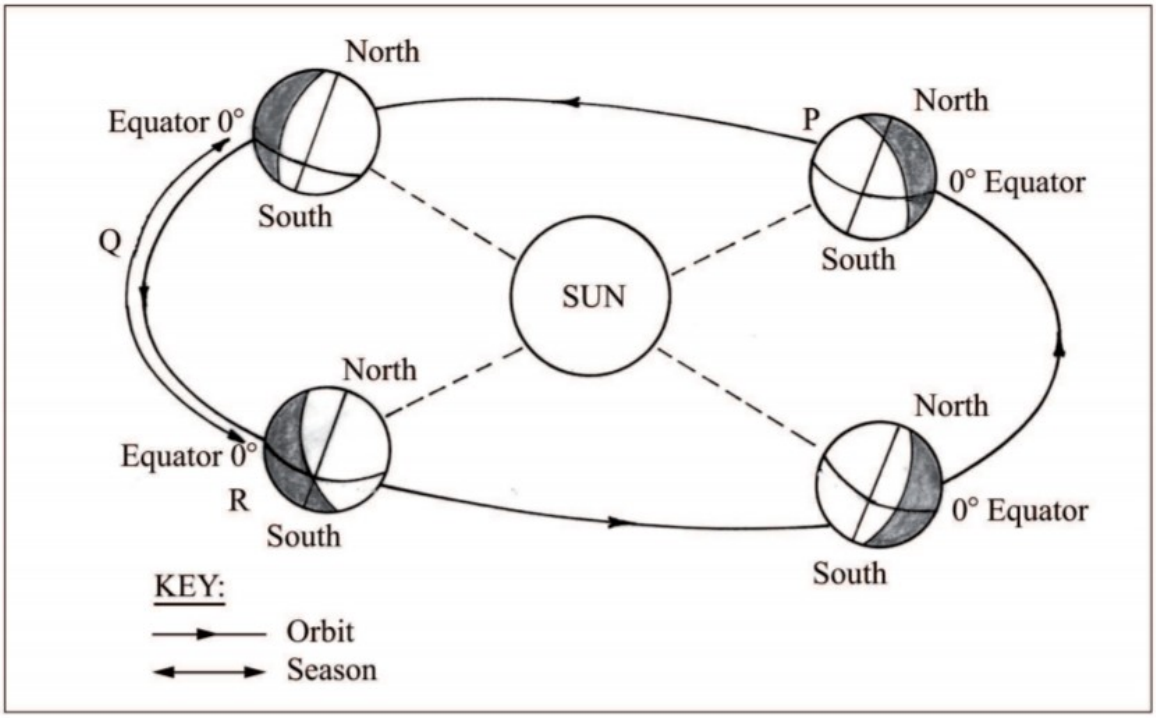
(ii) (b) (i) State five characteristics of the mantle in the interior structure of the earth. (5 marks)

(i) (ii) Outline the evidence which support the theory of continental drift. (4 marks)

(c) The diagram below represents the revolution of the earth.



(i) Name the solstice marked P. (l mark)

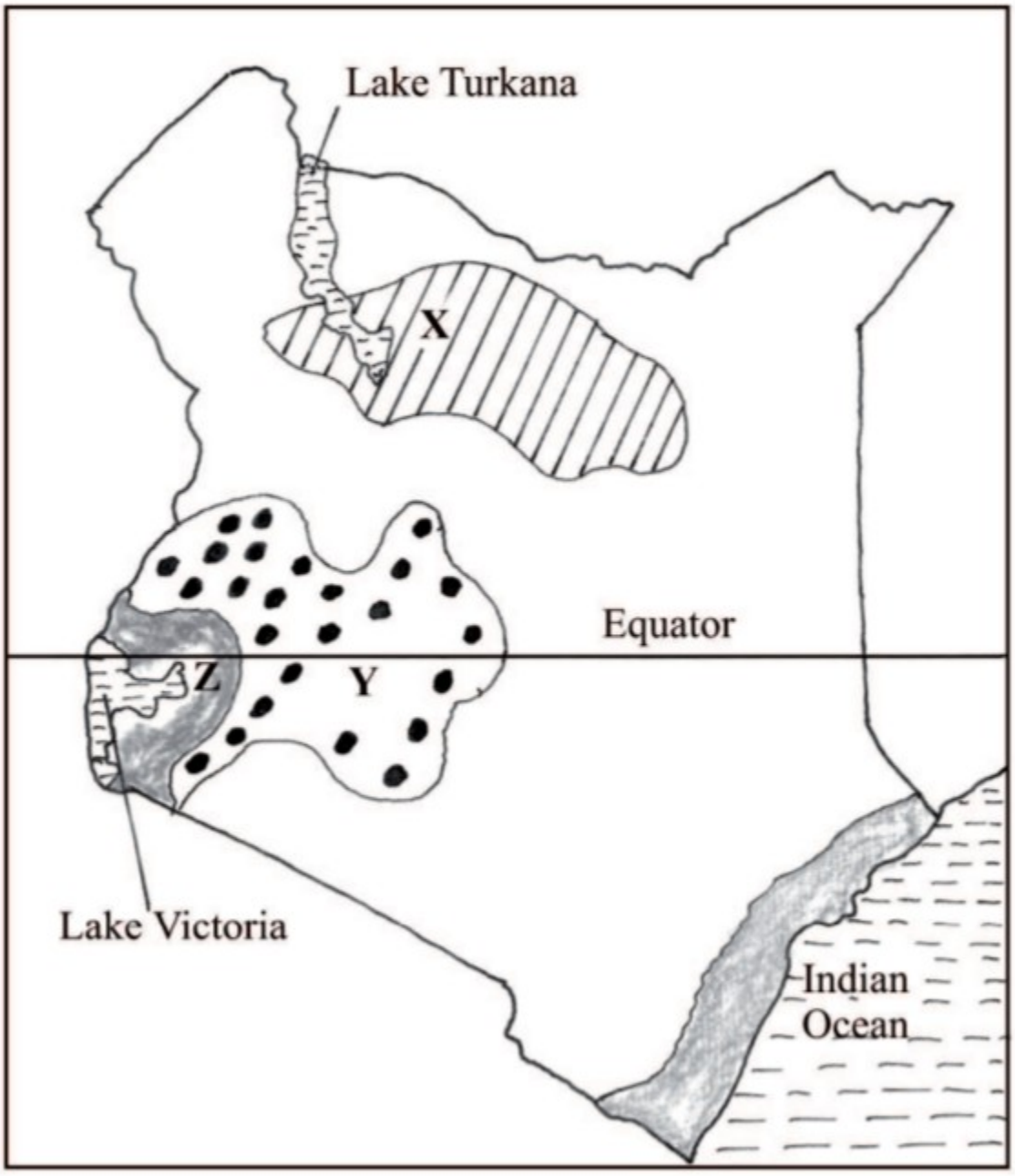
(ii) ldentify the season represented in the region marked Q. (1 mark)

(iii) Describe the climatic conditions in Europe when the Earth is in position R. (3 marks)

(d) With the aid ofa Well labelled diagram, describe the occurrence ofthe solar eclipse. (6 marks)

8. The map below shows some climatic regions of Kenya. Use it to answer question (a)

MR CHEPKWONY 26



(i) Name the climatic regions marked X and Y. (2 marks)

(ii) State three characteristics of the climatic region marked Z. (3 marks)

(b) Explain how each of the following factors influence climate:

(i) Altitude; (4 marks)

(ii) Ocean currents. (4 marks)

What are the negative effects of climate change on physical environment‘? (6 marks)

(d) Students visited a Weather station to study recording of weather elements.

(i) State three qualities in the construction of a Stevenson screen they would have observed during the study. (3 marks)

(ii) Identify three types of data they are likely to have collected during the study. (3 marks)

9. (a) (i) Name two types of submerged highland coasts. (2 marks)

(ii) Identify two resultant features of the emerged highland coasts. (2 marks)

(b) State three factors influencing deposition by ocean waves. (3 marks)

(c) With the aid of labelled diagrams describe the formation of the following coastal features:

(i) Fringing reef; (5 marks)

(ii) Spit. (5 marks)

Explain the significance of oceans to human activities. (8 marks)

10. (a) (i) Name two mountains in East Africa which are ice capped. (2 marks)

(ii) Identify three ways in which ice moves. (3 marks)

Describe the formation of the following glacial features:

(i) Hanging valley; (6 marks)

(ii) Pyramidal peak. (6 marks)

(c) You are required to carry out a field study on erosional features in glaciated lowland area.

(i) Give two reasons why you would require a working schedule. (2 marks)

(ii) Name three erosional features you are likely to observe during the field study. (3 marks)

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(iii) Give three follow-up activities you would undertake after the field study. (3 marks)

Paper 2

Section A: (25 marks)

Answer all the questions in this section,

1. (a) Give two uses of diamond. (2 marks)

(b) Identify three problems facing diamond mining in South Africa. (3 marks)

2 (a) Apart from coniferous forests, name two other types of natural forests. (2 marks)

(b) State three characteristics of coniferous forests which favour their exploitation.

3 Use the map of East Africa below to answer question (a). (3 marks)

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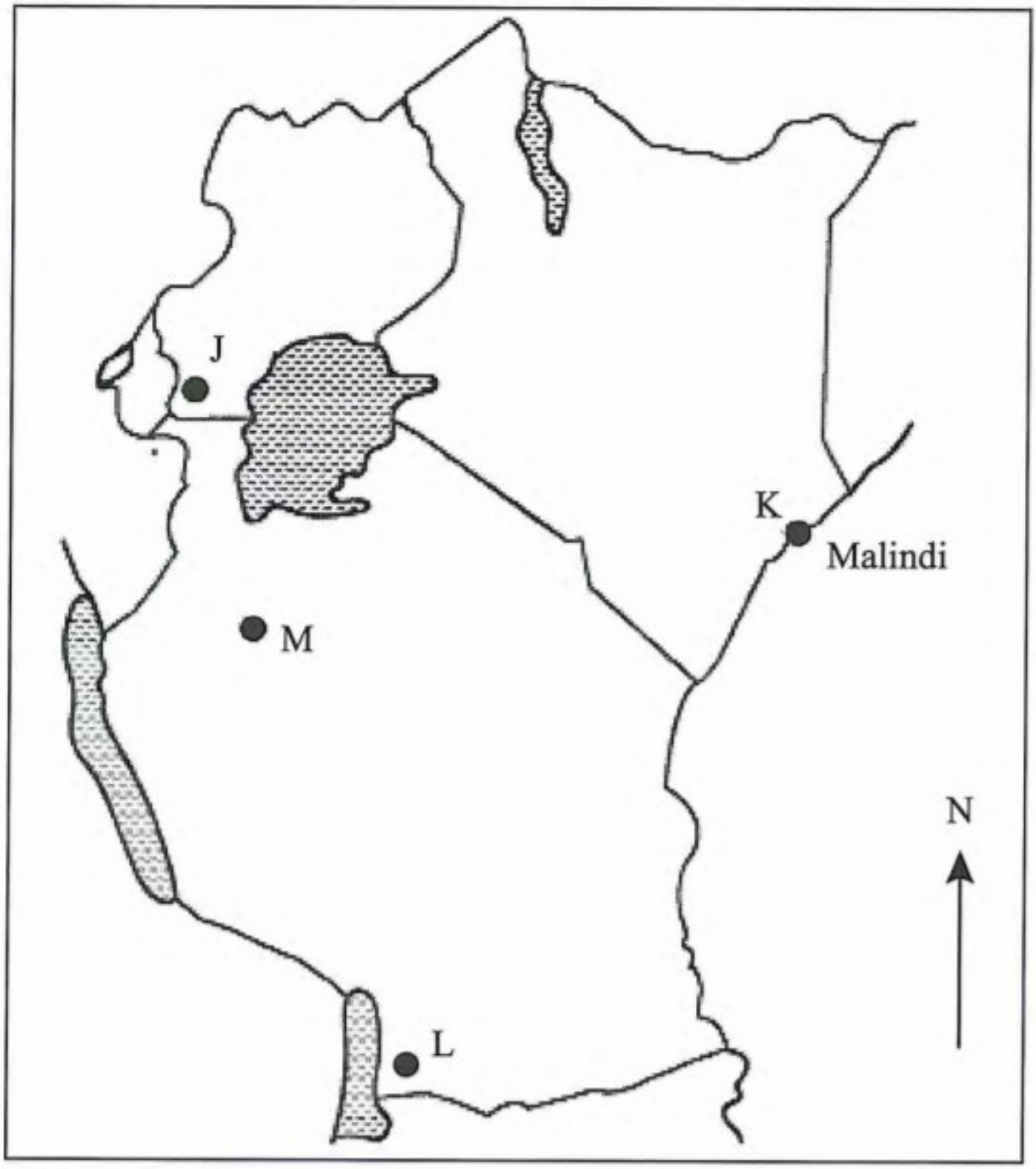


(a) Name the game reserves marked P, Q and R. (3 marks)

(b) State two factors which influence the distribution of wildlife in East Africa. (2 marks)

4 (a) Give two reasons why Geothermal power has not been fully exploited in Kenya. (2 marks)

(b) State three causes of the energy crisis in the world. (3 marks)

5 (a) Identify the two types of internal trade. (2 marks)

(b) Give three factors that limit trade among the member states of the common market for Eastern and Southern Africa (COMESA). (3 marks)

SECTION B: (75 marks)

Answer question 6 and any other two questions in this section.

6 Study the photograph below and use it to answer question (a)



(i) Identify the type of photograph shown above. (1 mark)

(ii) Name the type of settlement shown on the photograph. (1 mark)

(iii) What time of the day was the photograph taken? (1 mark)

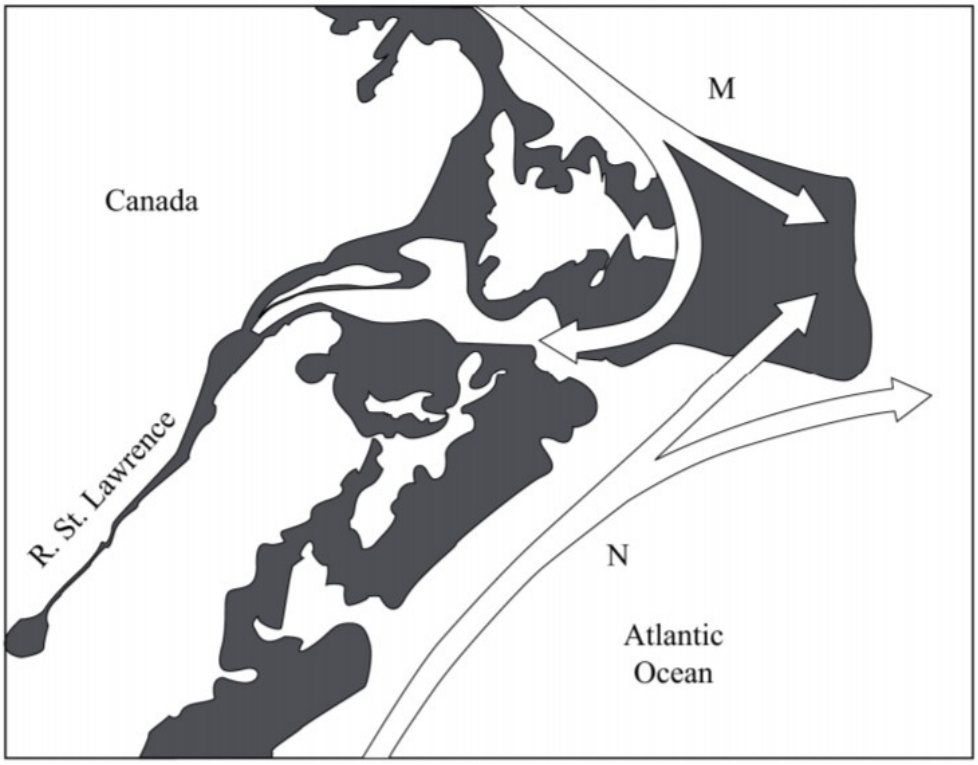
(iv) Draw a rectangle measuring 15 cm by 10 cm. On it, sketch and label five human features shown on the photograph.

(b) Explain four economic factors that influence settlement. (8 marks)

(c) Describe four negative effects of urbanization. (8 marks)

Explain three social factors that influence agriculture. (6 marks)
(i) Describe the cultivation of oil palm from land preparation to harvesting. (7 marks)
(ii) Give three uses of palm oil in Nigeria. (3 marks)
(c) Explain three reasons why horticultural farming is encouraged in Kenya. (6 marks)
(d) Give three factors which favours beef farming in the Nyika plateau. (3 marks)
8. (a) Explain four ways in which land is being rehabilitated in Kenya. (8 marks)
(b) (i) State two ways in which the salinity ofthe polders is reduced in The Netherlands. (2 marks)
(ii) Explain four ways in which the Zuyder Zee project benefits The Netherlands. (8 marks)
(c) You intend to carry out a field study on irrigation farming in Mwea Tebere Irrigation Scheme:
(i) Identify the two types of hypotheses you would develop for the study. (2 marks)
(ii) Name three crops, grown in the scheme that you are likely to identify. (3 marks)
(iii) Give two reasons why you need to sample the area of study. (2 marks)
9. (a) Define the term fishing. (2 marks)
(b) Explain two ways in which each of the following factors negatively affects fishing in Kenya.
(i) Agricultural activities. (4 marks)
(ii) Water weeds. (4 marks)
(c) Use the map of North-West Atlantic fishing ground to answer questions (c)(ii) and (iii).

MR CHEPKWONY 0724351706



(i) Give three types of fish species caught in the North-West Atlantic fishing ground. (3 marks)

(ii) Name the Ocean currents marked M and N. (2 marks)

(iii) influence fishing. (4 marks)

(iv) Give three differences between fishing in Kenya and Japan. (6 marks)

10 (a) What is environmental management?

(i) Explain four negative effects of floods.(8 markes)

(ii) State two measures being taken to control lightning.(2 marks)

Explain the significance of conserving the environment (8 marks)

(d) Your Geography class carried out a field work on floods along a river.

(i) Name two types of field work they could have used.

(ii) Give three advantages of studying floods through field work. (3 marks) (2 marks)

MR CHEPKWONY

Explain two ways in which the convergence of Ocean currents marked M and N (3 marks)

2015

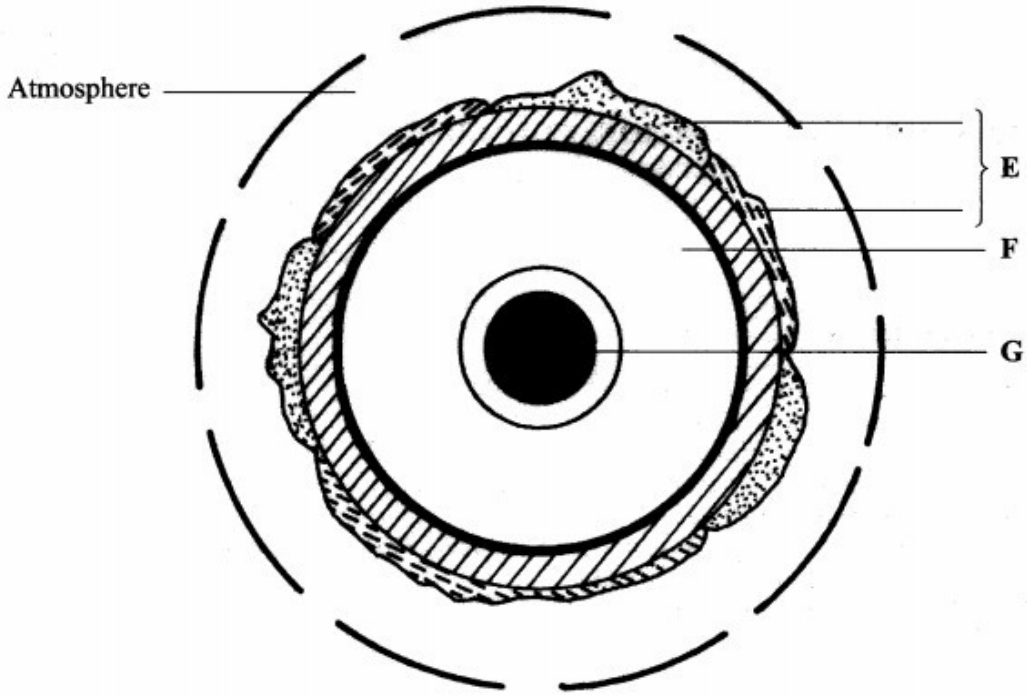
GEOGRAPHY

Paper l

SECTION A

*Answer **all** the questions in this section.*

1. The diagram below represents the structure of the earth. Use it to answer question (a).



(a) Name:

(i) the layers marked **E** and **F**. (2 marks)

(ii) the minerals that make up the layer marked **G**. (2 marks)

(b) Give **two** effects of the rotation of the earth on its axis. (2 marks)

2. (a) What is a metamorphic rock? (2 marks)

(b) Give **three** examples of metamorphic rocks. (3 marks)

3. (a) Name **two** types of boundaries according to the plate tectonic theory.(2 marks)

(b) Give **three** effects of the movement of tectonic plates. (3 marks)

4. (a) What is an earthquake? (2 marks)

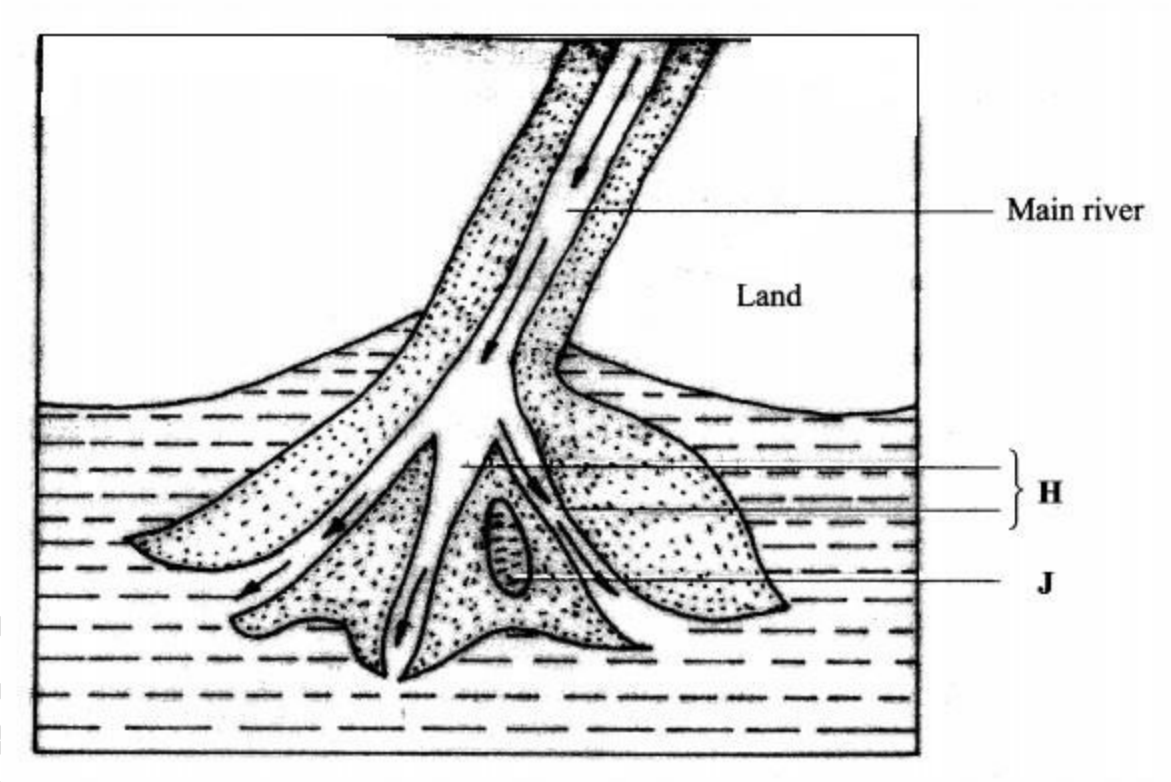
(b) Identify the scale used to measure:

(i) the intensity of earthquakes; (1 mark)

(ii) the magnitude of earthquakes. (l mark)

5. (a) Give **three** characteristics of a river in its middle stage. (3 marks)

The diagram below shows a Bird's foot delta. Use it to answer question (b).



(b) Identify the features marked **H** and **J**. (2 marks)

SECTION B

Answer **question 6** and any other **two** questions from this section.

6. Study the map of Busia 1:50,000 (sheet 101/1) provided and answer the following questions.

(a) (i) Convert the ratio scale of the map extract into a statement scale. (2 marks)

(ii) What is the general direction of flow of river Sio? (1 mark)

(iii) Identify the **two** dominant types of natural vegetation shown in the area covered by the map.(2 marks)

(b) Draw a square 10 cm by 10 cm to represent the area to the west of Easting 30 and north of Northing 40. On the square, mark and label:

(i) an international boundary;

(ii) an air photo principal point;

(iii) river Sio;

(iv) the area above 1200 metres above sea level. (5 marks)

(c) Describe the relief of the area covered by the map (5 marks)

(d) (i) Explain how the following factors have influenced the distribution of settlements in the area covered by the map:

- drainage; (2 marks)
- transport. (2 marks)

(ii) Citing evidence from the map, state **three**functions of Funyula town. (6 marks)

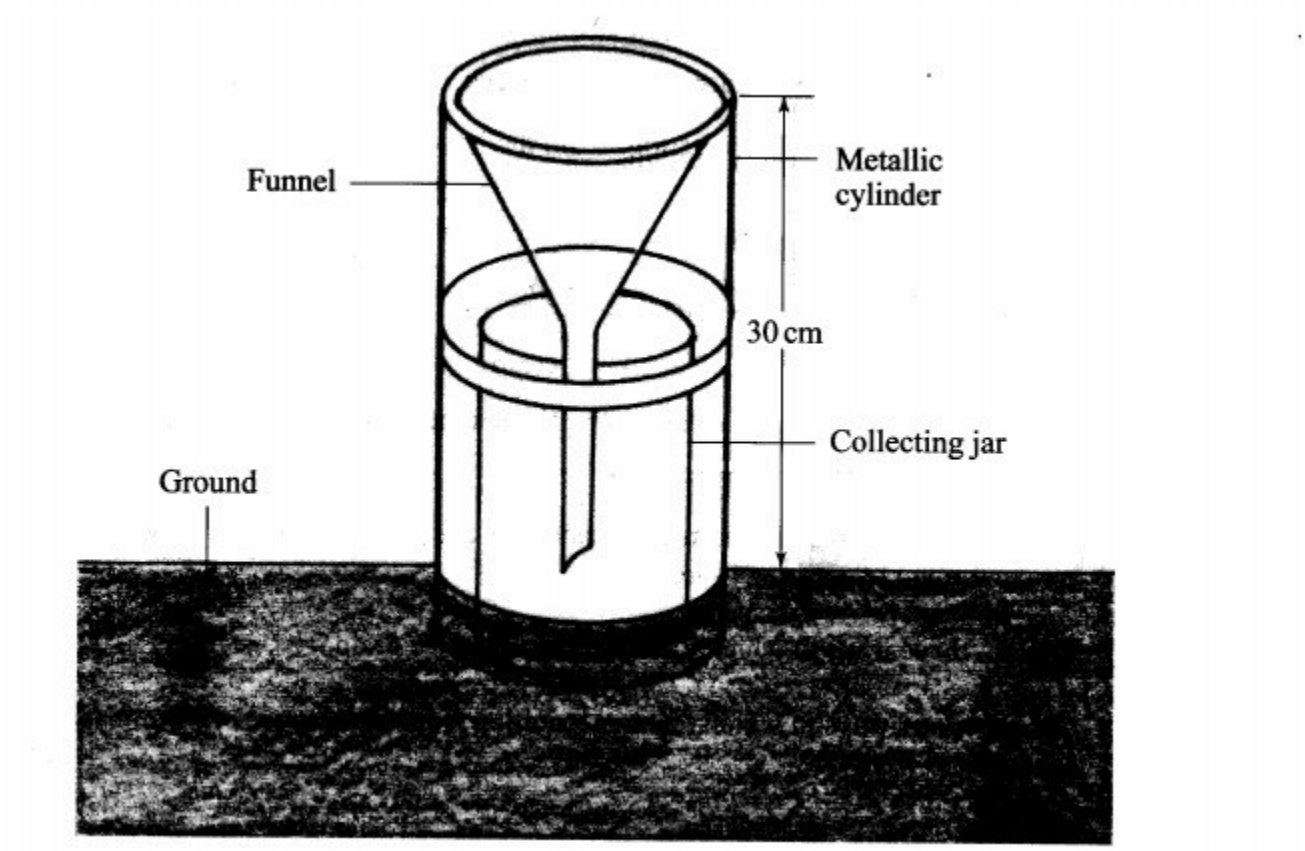
7. (a)(i) Define the term weather. (2 marks)

(ii) Explain how the following factors influence weather:

- cloud cover; (4 marks)
- local winds. (4 marks)

The diagram below represents a weather measuring instrument. Use it to answer question (b).

MR CHEPKWONY 0724351706



(b) (i) Which element of weather is measured using the instrument shown above? (1 mark)

(ii) Describe how the above instrument is used. (3 marks)

8 (b) Explain how the following factors influence the amount of underground water in limestone areas:

(i) rainfall; (4 marks)

(ii) vegetation cover, (4 marks)

(c) (i) Apart from stalagrnites, name **three** other underground features formed in limestone areas. (3 marks)

(ii) With the aid of a diagram, describe how a stalagmite is fomred. (8 marks)

(d) Give **three** reasons why there are few settlements in Karst landscapes. (3 marks)

Paper 2

SECTION A: (25 marks)

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Answer **all** the questions in this section.

1 (a) Define the term environment. (2 marks)

(b) Give three effects of air pollution in major urban centres. (3 marks)

2 (a) Identify three factors that influence the occurrence of minerals. (3 marks)

(b) Name the area Where the following minerals are mined in Kenya:

(i) diatomite; (1 mark)

(ii) salt. (1 mark)

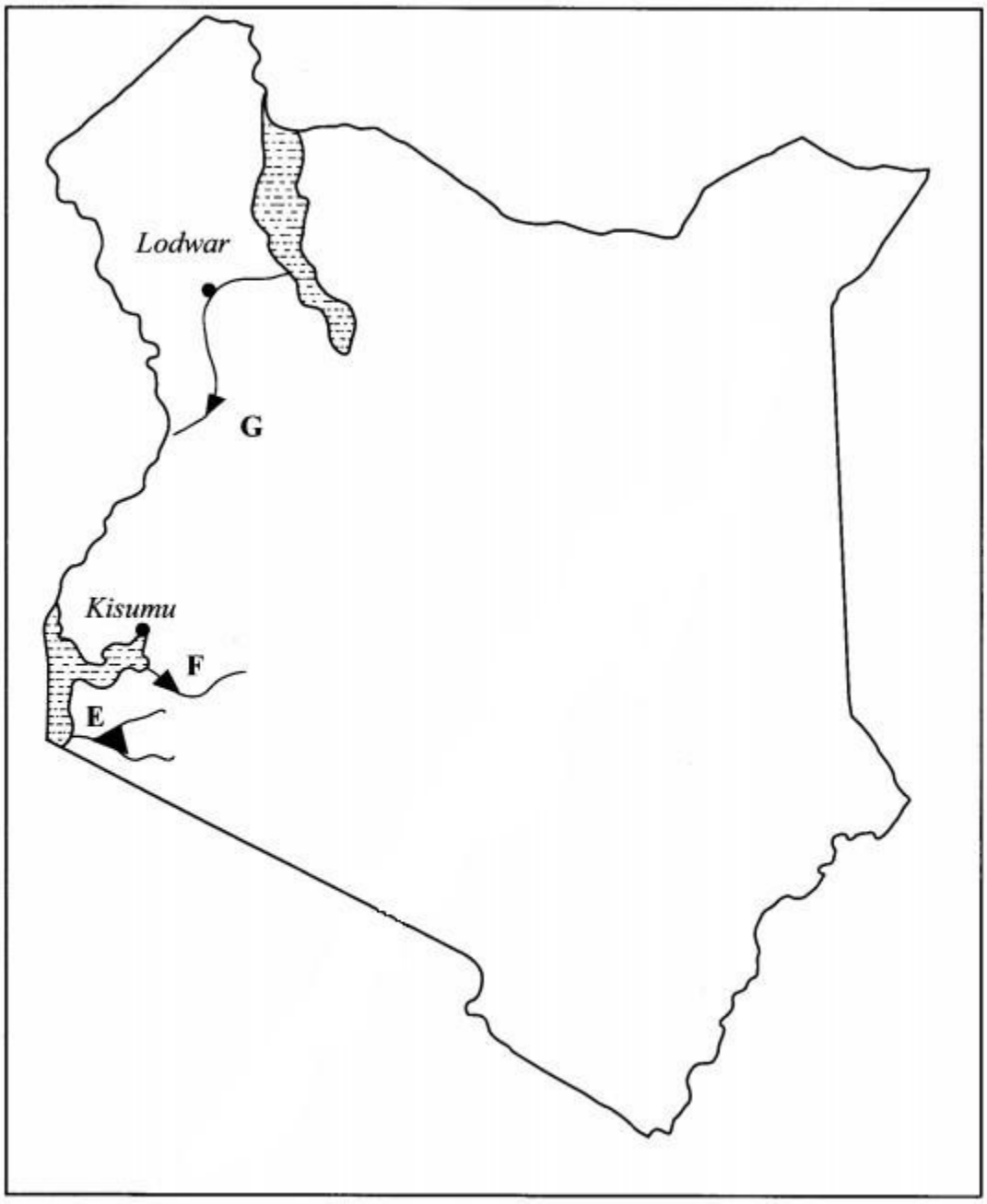
3 (a) Distinguish between forest and forestry. (2 marks)

(b) Identify **three** activities that may be undertaken in your school to conserve trees. (3 marks)

4 Give **four** challenges facing Nomadic pastoralism in Kenya. (4 marks)

5 Use the map of Kenya below to answer question (a).

MR CHEPKWONY 0724351706



(a) Name the hydro-electric power projects marked **E**, **F** and **G**. (3 marks)

(b) State **three** advantages of geothermal power as a source of energy. (3 marks)

SECTION B (75 marks)

*Answer question 6 and any other **two** questions in this section.*

6 The table below shows the value of some of Kenya's mineral exports from 2008 to 2014. Use it to answer questions (a) and (b).

Value of Kenya's mineral exports (Million Ksh.)

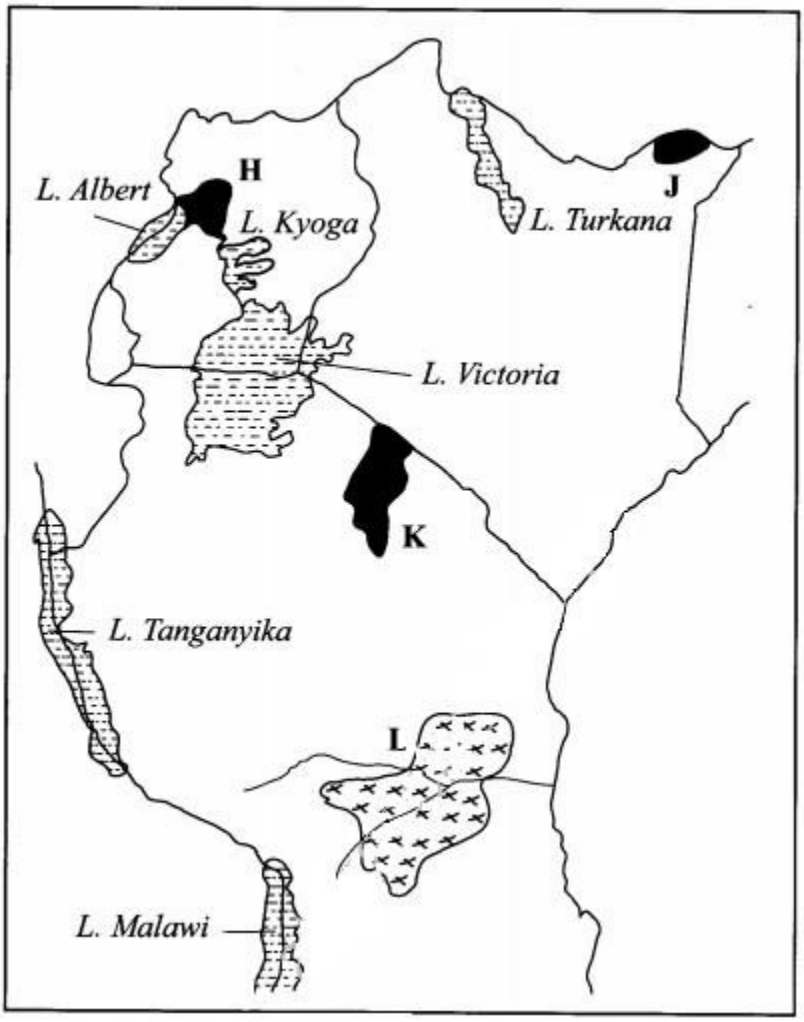
Mineral \ Year	2008	2009	2010	2011
Soda Ash	13200	8300	7300	12400
Petroleum Products	4200	4500	4700	6100
Cement	7300	7800	7400	8900

Source: Central Bureau of Statistics

(a) (i) Using a scale of l cm to represent l000 million Kenya Shillings, draw a comparative bar graph to represent the data shown. (8 marks)
(ii)State **three** advantages of using comparative bar graphs to represent statistical data. (3 marks)
(b) Calculate the percentage increase in value of exports between the years 2010 and 2011. (6 marks)
(c) Explain the significance of trade to the economy of Kenya. (8 marks)
7 (a)State **three** physical conditions which favour large scale sugarcane growing in Kenya. (3 marks)
(b) (i) Describe the stages involved in the processing of sugarcane at the factory. (6 marks)
(ii) Give **three** by-products obtained from sugarcane. (3 marks)
(c) Explain **three** ways in which the Kenya Government is promoting the sugar manufacturing industry. (6 marks)
(d) Your class visited a sugarcane plantation for a field study on land preparation and planting.
(i) Outline **four** activities that you are likely to identify. (4 marks)
(ii) Give **three** methods you would use to record data during the field study. (3 marks)

MR CHEPKWONY 0724

8 (a) Differentiate between domestic and international tourism.(2 marks) Use the map of East Africa below to answer question (b).



(b) Name:

(i) The national parks marked **H**, **J** and **K**. (3 marks)

(ii) The game reserve marked **L**. (1 mark)

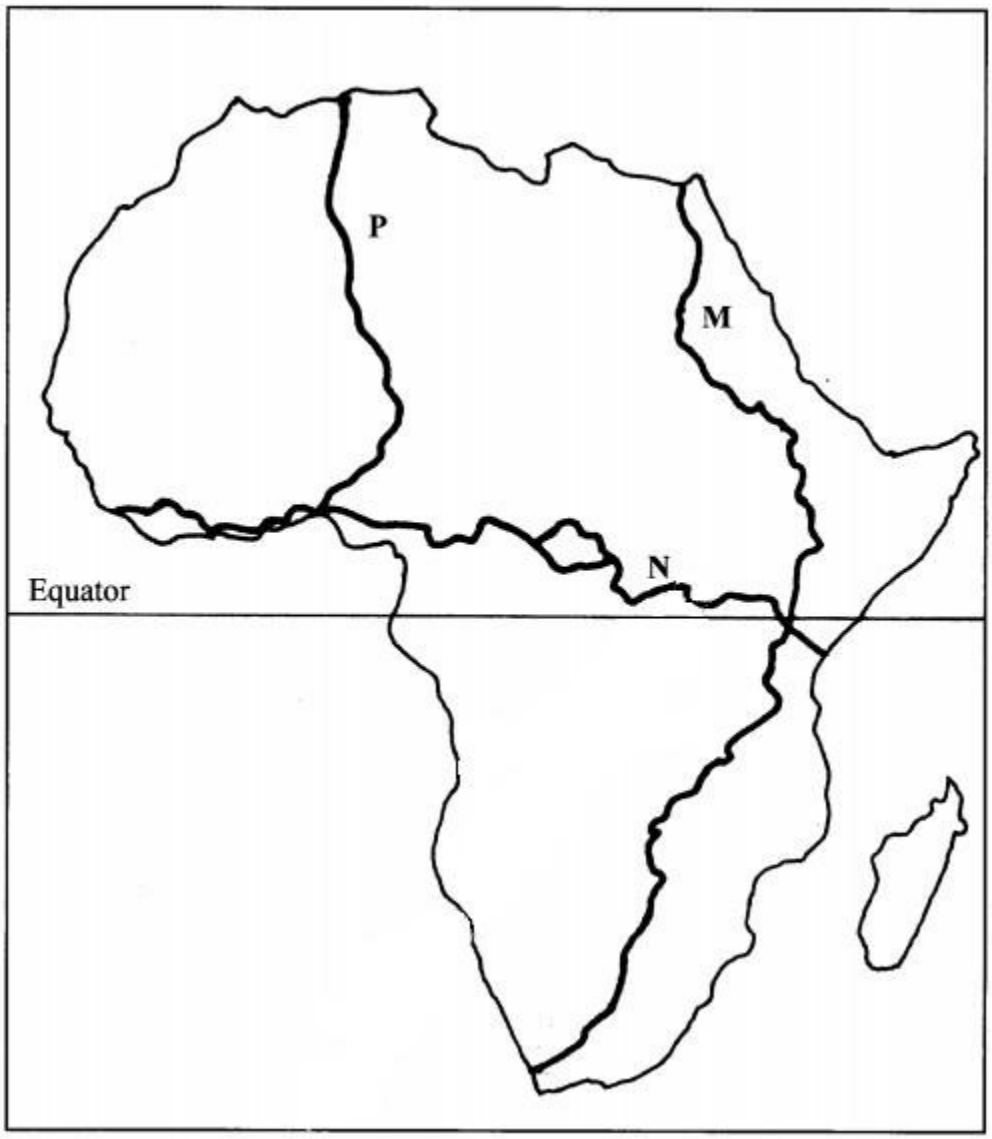
(c) (i) Explain how the following factors influence tourism in Kenya.

- climate; (2 marks)
- scenery; (2 marks)
- tour companies. (2 marks)

(iii) State **five** effects of floods on tourism. (5 marks)

(d) Explain **four** ways in which the county governments in Kenya would promote sustainable tourism. (8 marks)

9 Use the map of Africa below to answer question (a)



(a) Name the trans-continental highways in Africa marked **M**, **N** and **P**. (3 marks)

(b) (i) State **four** advantages of air transport. (4 marks)

(ii) Explain **four** efforts that the Kenya Government has taken to improve air transport. (8 marks)

(c) (i) Identify **two** types of communication. (2 marks)

(ii) Explain **four** problems facing communication in Africa. (8 marks)

10 (i) Give **two** main sources of population data. (2 marks)

(ii) Outline the information that can be derived from a population pyramid. (3 marks)

(b) Explain how the following factors have led to population increase in Kenya

(i) cultural beliefs; (2 marks)

(ii) migration (2 marks)

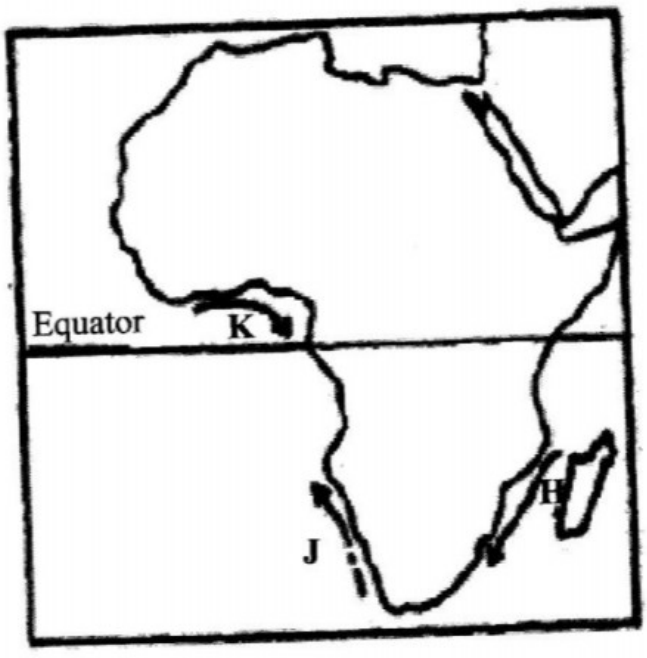
(c) Explain **four** problems which result from a high population growth rate in Kenya.(8 marks)

(d) Describe **four** ways in which the population of Kenya differs from that of Sweden. (8 marks)

2016 Geography Paper 1

SECTION A (30 marks)

Answer all the questions in this section.



1. (a) How does a sea breeze occur? (b) Use the map of Africa below to answer question (b) (i) (2 marks)

(i) Name the ocean currents marked H, i and K. (3 marks)

(ii) State two effects of a warm ocean current on the adjacent coastlands. (2 marks)

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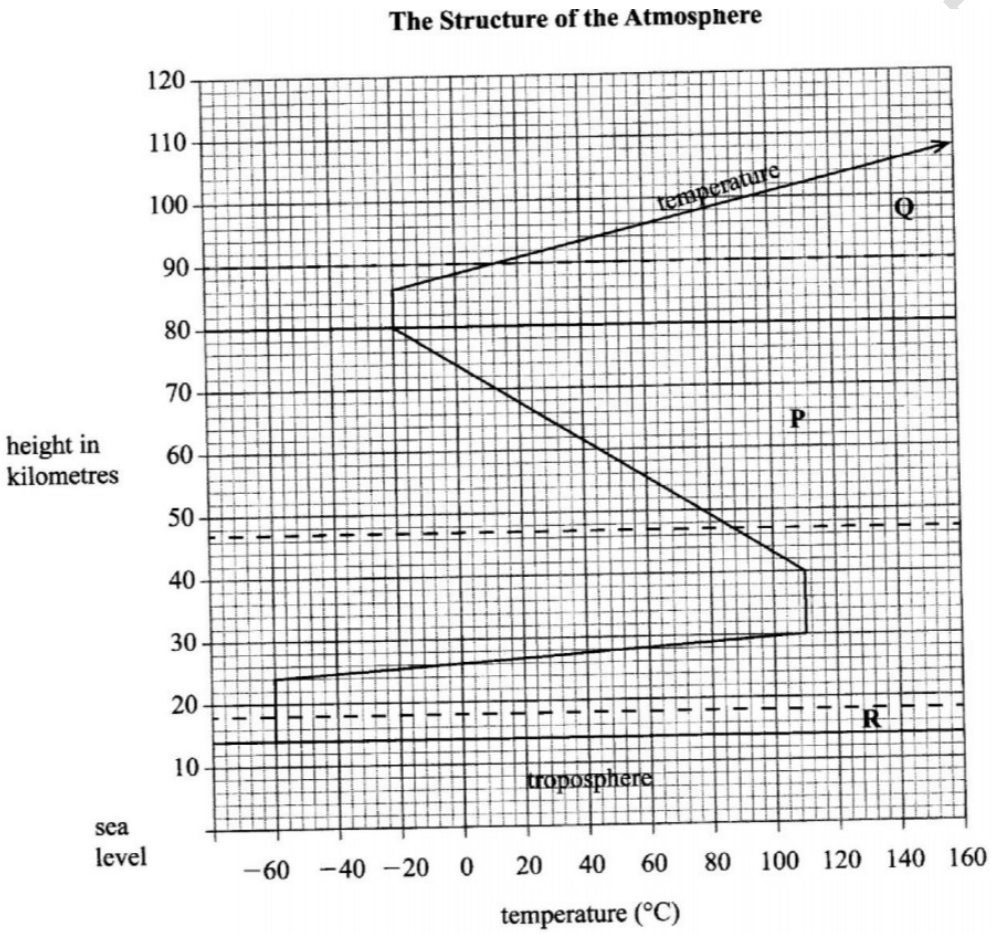
2. (a) Name two types of boundaries according to the plate tectonic theory. (2 marks)

(b) Give three effects of the movement of tectonic plates. (3 marks)

3. The diagram below represents the structure of the atmosphere. Use it to answer question (a).



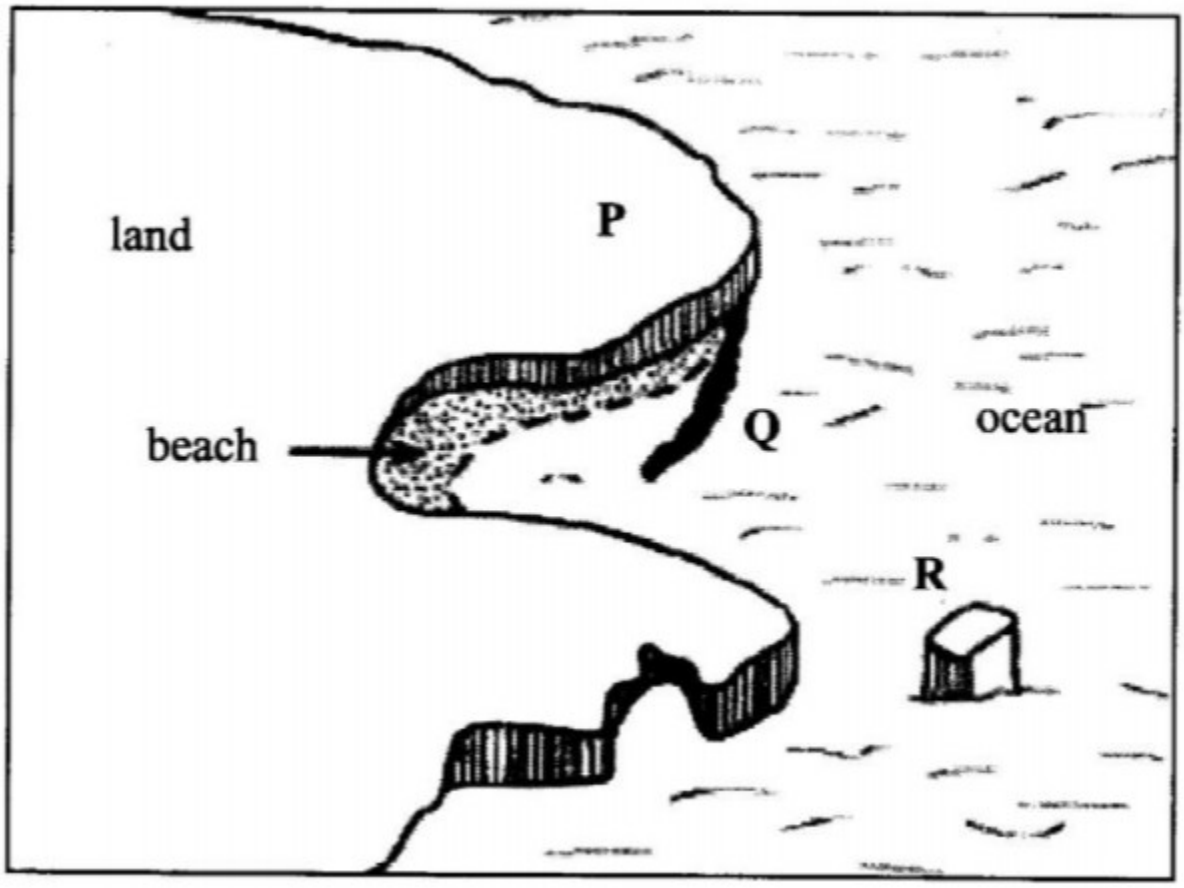
(a) Name: (i) The parts marked P and Q.

(2 marks)

(ii) The layer of discontinuity marked R. (1 mark)

(b) State two characteristics of weather conditions in the troposphere. (2 marks)

4. The diagram below shows coastal features.



(a) Name the features marked P, Q and R. (3 marks)

(b) State two conditions necessary for the formation of a beach. (2 marks)

5. Name the three major deserts in Africa. (3 marks)

SECTION B

Answer question 6 and any other two questions from this section.

6. Study the map of Kitale 1:50,000 (sheet 75/3) provided and answer the following questions.

(a) (i) Identify two human made features found at the grid square 2320. (2 marks)

(ii) What is the altitude of the highest point in the area covered by the map? (2 marks)

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(iii) Give three types of natural vegetation found in the area covered by the map. (3 marks)

(b) (i) What is the bearing of the air photo principal point at grid square 3426 from the air photo principal point at grid square 2931? (2 marks)

(ii) Measure the distance of the dry weather road (C640) from the junction at point M (345142) from the junction at point N (416201) Give your answer in kilometers. (2 marks)

(c) (i) Using a scale of 1 cm to represent 40 metres, draw a cross-section from grid reference 410180 to grid reference 500180. (4 marks)

(ii) On the cross-section mark and name the following:

• a dry weather road; (1 mark)

• River Kaptarit (1 mark)

• a ridge. (1 mark)

(iii) Calculate the (VE) vertical exaggeration of the section. (2 marks)

(d) Citing evidence from the map, identify five social services offered in Kitale. (5 marks)

7. (a) (i) Name two types of submerged highland coasts. (2 marks)

(ii) Identify two resultant features of the emerged highland coasts. (2 marks)

(b) State three factors influencing deposition by ocean waves. (3 marks)

(c) With the aid of labelled diagrams, describe the formation of the following coastal features:

(i) Fringing reef; (5 marks)

(ii) Spit. (5 marks)

(d) Explain the significance of oceans to human activities. (8 marks)

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8. (a) (i) What is a lake? (2 marks)
(ii) Name two crater lakes in Kenya. (2 marks)
(b) Describe how each of the following lakes are formed: (i) come lake; (4 marks)
(ii) oasis; (4 marks) (iii) lagoon. (4 marks)
(c) (i) Give three reasons why some lakes in Kenya have saline water. (3 marks)
(ii) Explain how each of the following has affected lakes in Kenya:
• deforestation (2 marks)
• industrialisation (2 marks)
• water needs. (2 marks)
9. (a) (i) Name three types of faults. (3 marks)
(ii) Apart from compressional forces, explain two other processes that may cause faulting. (4 marks)
(b) With the aid of diagrams. describe how compressional forces may have led to the formation of the Great Rift Valley. (8 marks)
(c) Explain five ways in which faulting is of significance to human activities.(10 marks)
10. (a) Differentiate between magma and lava.
(b) The diagram below shows some intrusive volcanic features. (2 marks)

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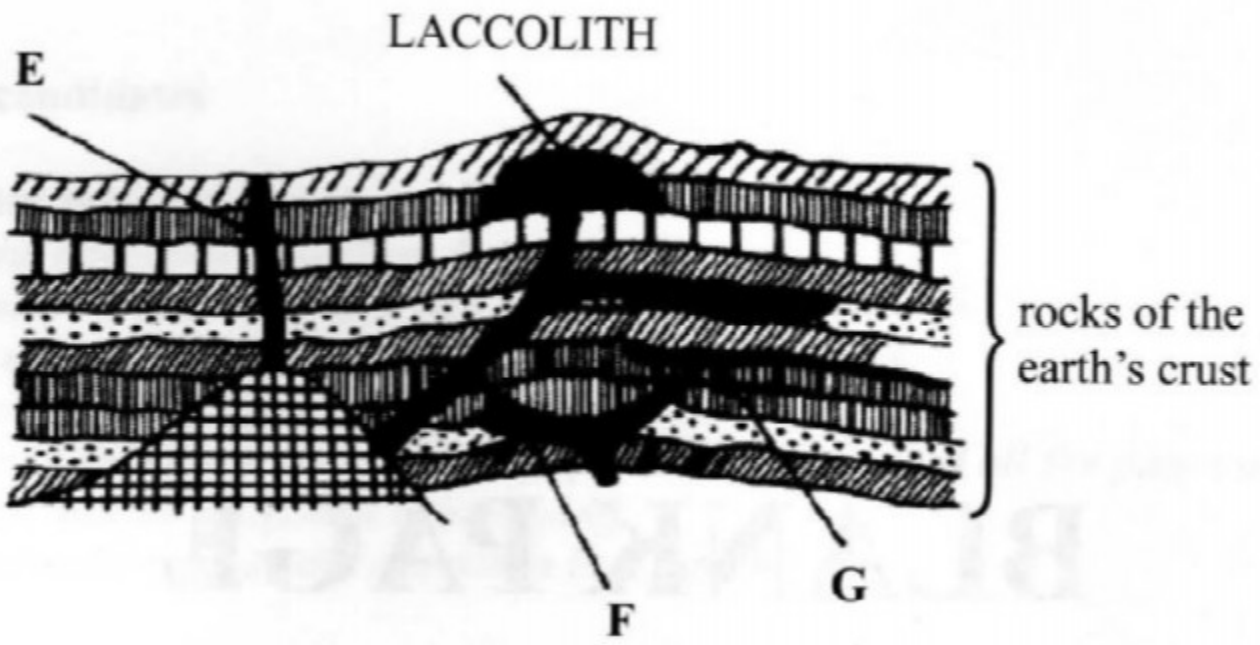

Name the features marked E, F, and G. (3 marks)

(c) Describe how the following features are formed and for each give an example from Kenya:

(i) a crater (3 marks)

(ii) a geyser (5 marks)

(iii) a lava plateau. (4 marks)

(d) Explain four ways in which volcanic features influence human activities. (8 marks)

2016 Geography Paper 2

SECTION A

Answer all the questions in this section

1. (a) Name two exotic breeds of dairy cattle reared in Kenya. (2 marks)

(b) State three physical conditions that favour dairy farming in Denmark. (3 marks)

2. (a) Name the method of irrigation used in the Perkerra Irrigation Scheme. (1 mark)

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(b) State three factors that influenced the location of the Perkerra Irrigation Scheme. (3 marks)

3. (a) Differentiate between transport and communication. (2 marks)

(b) State three causes of the decline in the use of letter writing as a means of communication in Kenya. (3 marks)

4. (a) Why is Kenya's petroleum refinery located at Mombasa? (2 marks)

(b) State three ways in which the clearing of forests has affected the natural environment in Kenya. (3 marks)

5. (a) State three measures which the government of Kenya has taken to reduce infant mortality. (3 marks)

(b) Give three negative effects of low population growth in a country. (3 marks)

SECTION B Answer question 6 and any other two questions from this section

6. Use the map below to answer question (a) (i) and (ii)

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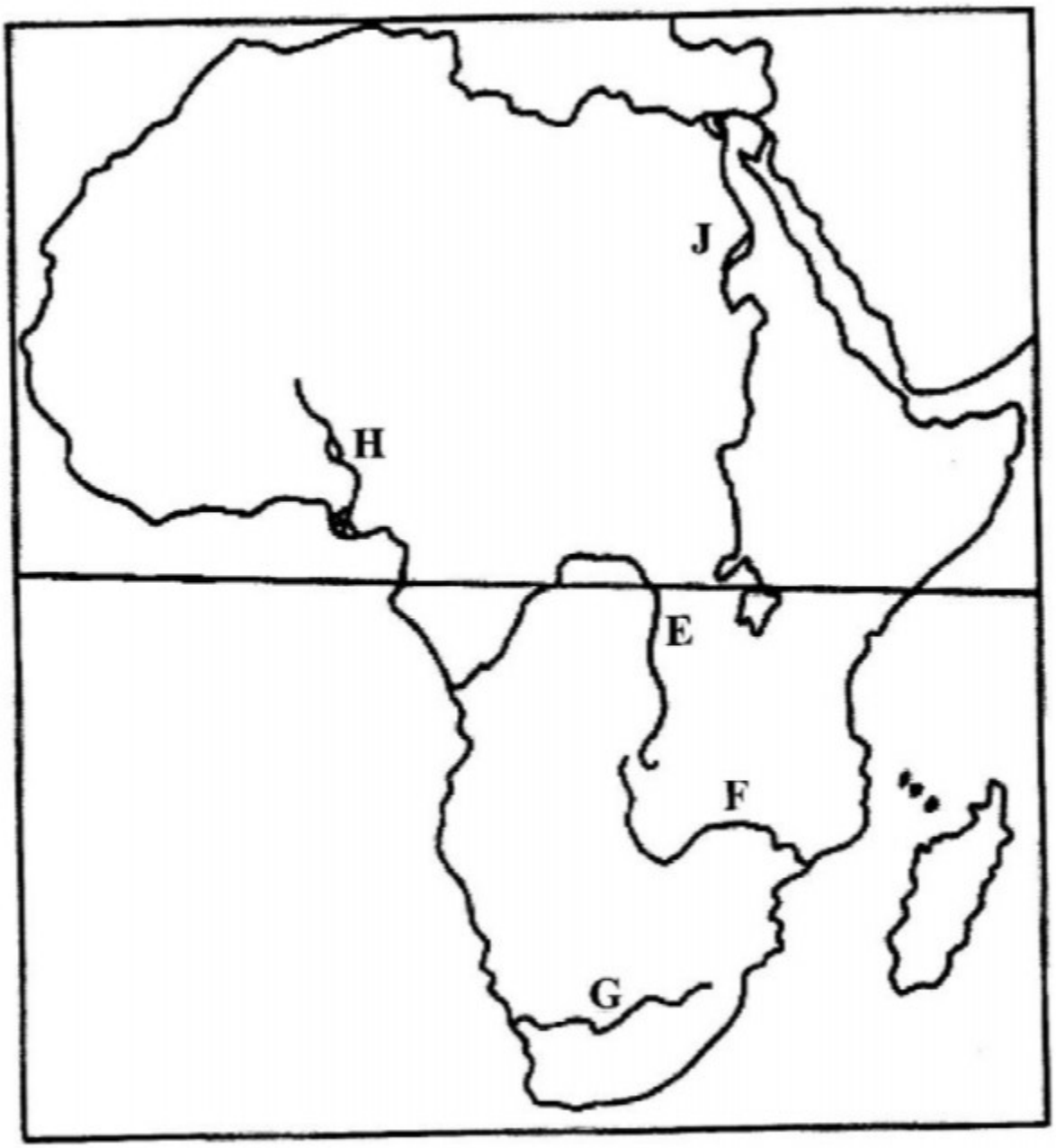

(a) Name:

(i) The rivers marked E, F and G. (3 marks)

(ii) The human-made lakes marked H and J. (2 marks)

(iii) Explain four measures which should be taken to improve inland water (8 marks) transport in Africa.

(h) State four ways in which communication contributes to economic development in Kenya. (4 marks)
(c) Explain four problems facing railway transport in Africa. (8 marks)
7. Study the photograph below and answer questions (a) and (b).



(a) Name: (i) the mining method shown in the photograph; (I mark)
(ii) two minerals that may be mined using the method shown in the photograph. (2 marks)

(b) (i) Using evidence from the photograph, give four indicators that show that the weather was hot when the photograph was taken. (4 marks)
(ii) Describe how minerals are obtained using the mining method shown in the photograph. (5 marks)
(iii) Citing evidence from the photograph, explain two ways in which the mining method shown has affected the environment. (4 marks)
(iv) Apart from the method shown in the photograph, name three other mining methods. (3 marks)
(c) Explain how the following factors influence the occurrence of minerals
(i) evaporation; (2 marks)
(ii) volcanicity; (2 marks)
(iii) metamorphism. (2 marks)
8. (a) (i) Name two settlement patterns. (2 marks)
(ii) Explain four physical factors that influence settlement. (8 marks)
(b) (i) Explain how the following factors have led to the growth of Thika.
• Location; (2 marks)
• Transport; (2 marks)
• Land. (2 marks)
(ii) Apart from being a transport and communication centre, give three other functions of Thika town. (3 marks)
(c) Explain three positive effects of urbanisation to a country. (6 marks)
9. (a) Identify three sources of renewable energy. (3 marks)
(b) (i) Name three main Hydro Electric Power stations along the River Tana. (3 marks)

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(ii) Apart from providing electric power, state four other benefits of the dams along the River Tana. (4 marks)
(iii) Identify two problems that affect the production of power from the stations along River Tana. (2 marks)
(c) Explain four measures the Government of Kenya has taken to conserve energy. (8 marks)
(d) Some students carried out a field study on sources of energy by sampling households around their school.
(i) Identify two sampling techniques the students may have used during the study. (2 marks)
(ii) Give three advantages of sampling the household for the study. (3 marks)
(a) (i) What is visible trade? (2 marks)
(ii) List three major imports to Kenya from Japan. (3 marks)
(b) Explain four factors that influence internal trade in Kenya. (8 marks)
(c) State four ways in which trade is of significance to Kenya. (4 marks)
(d) Explain four benefits which member states of ECOWAS derive from the formation of the trading bloc. (8 marks)

2017 Geography Paper 1
SECTION A (30 marks)
Answer all the questions in this section.
1. 1. (a) State three reasons why it is important to study Geography. (3 marks)
(b) Identify three ways in which Geography is related to Agriculture. (3 marks)
2. (a) What is weather forecasting? (2 marks)
(b) Give three elements of weather. (3 marks)

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3. (a) Name three features that make up the hydrosphere. (3 marks)
(b) Explain how the movement of magma causes earth movement. (2 marks)
4. (a) Distinguish between a river capture and a river rejuvenation (2 marks)
(b) Give three ways in which a river transports its load. (3 marks)
5. State four ways in which the savanna grasslands have adapted to climatic conditions. (4 marks)
SECTION B
Answer traestion 6 and any other two questions from this section.
6. Study the map of Oyugis 1:50,000 (sheet 130/1) provided and answer the following questions.
(a) (i) What type of map is Oyugis map extract? (1 mark)
(ii) Give two scales that have been used in the map extract. (2 marks)
(b) (iii) Measure the length of the township boundary shown on the map. Give your answer in kilometres. (2 marks)
(iv) Calculate the area covered by Kodera forest. Give your answer in square kilotnetres. (2 marks)
(i) Identify the methods that have been used to represent relief of the area covered by the map. (2 marks)
(ii) Name the physical features found in the grid square 6842. (2 marks)
(c) Describe the drainage of the area covered by the map. (6 marks)
(d) (i) Apart from agriculture, name two other economic activities in the area covered by the map. (2 marks)

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(ii) Citing evidence from the map, give three reasons why the area covered by the map is suitable for agricultural activities. (6 marks)

7. (a) (i) Apart from metamorphic rocks, name two other categories of rocks. (2 marks)

(ii) Describe the following processes of formation of metamorphic rocks.

• Dynamic metamorphism (4 marks)

•Thermal metamorphism (4 marks)

(b) Explain three ways in which rocks are significant to human activities in Kenya. (6 marks)

(c) You intend to carry out a field study on the types of rocks within the school locality. (i) Identify three items that you will carry during the study. (3 marks)

(ii) State three activities that you will be involved in during the study. (3 marks)

(iii) List three types of metamorphic rocks that you are likely to identify. (3 marks)

8. (a) (i) Apart from anticlinorium and syclinorium complex, name three other types of folds. (3 marks)

(ii) With an aid of a well labelled diagram, describe the formation of anticlinorium and synclonorium complex. (6 marks)

(b) (i) Name the young fold mountains found in the following continents. Africa (1 mark)

Europe (1 mark)

Asia (1 mark

) North America (1 mark)

(ii) Describe the formation of fold mountains according to the convectional current theory. (4 marks)

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(c) Explain four effects of folding on physical environment. (8 marks)
9. (a) (i) Define the term hydrological cycle. (2 marks)
(ii) Give three factors that influence the occurrence of surface runoff. (3 marks)
(iii) State the significance of the hydrological cycle. (4 marks)
(b) Describe how the following lakes were formed. (i) moraine dammed lake (2 marks)
(ii) oxbow lake (4 marks)
(c) Explain ways in which lakes modify the climate of the surrounding areas. (6 marks)
(d) Give four reasons why some lakes have fresh water. (4 marks)
10. (a) (i) What is soil structure? (2 marks)
(ii) Explain how the following factors influence soil formation.
• Time (2 marks)
Parent rock (4 marks)
(b) Describe the following properties of soil.
• Soil texture (2 marks)
Soil porosity (2 marks)
Soil colour (2 marks) (c) State four negative effects of soil erosion. (4 marks)
(d) You are planning to carry out a field study on soil around your school.
(i) State four preparations that you will make for the study. (4 marks)
(ii) Give reasons why it is important to study soils through field study. (3 marks)

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2018 Geography Paper 1

SECTION A

Answer all the questions in this section.

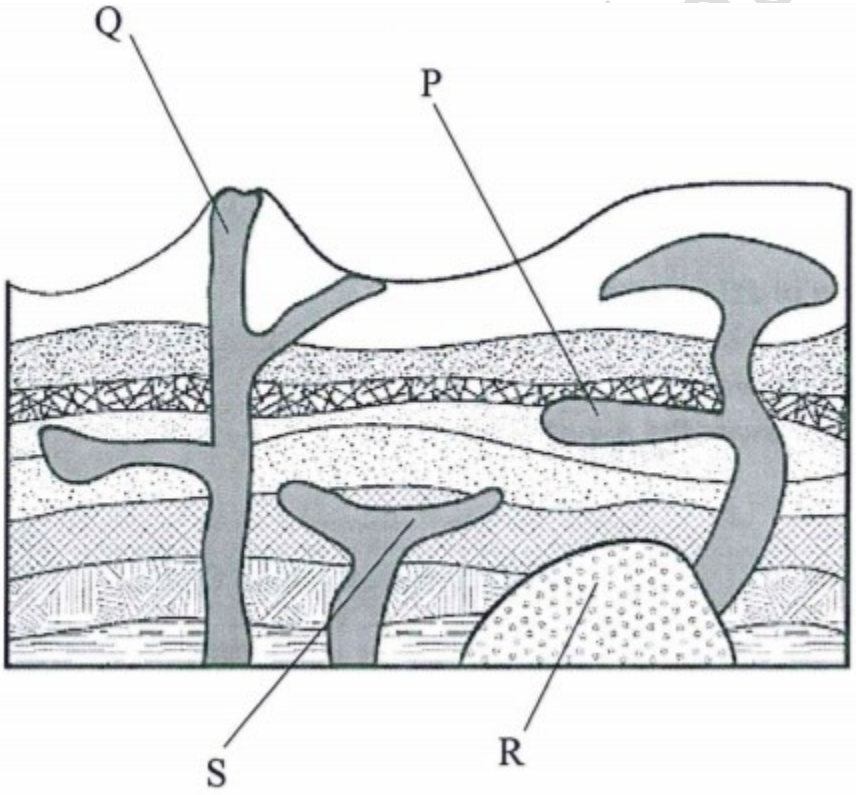
1. (a) Define the term atmosphere.(2 marks)

(b) State the composition of the inner core.(3 marks)

2. (a) Name three types of folds.(3 marks)

(b) State three factors that determine the folding of crustal rocks.(3 marks)

3. The diagram below represents some volcanic features. Use it to answer the questions below.



Name the features marked P, Q, R and S.

4. (a) Identify the main characteristics of the ocean water.(2 marks)

(b) Give three factors that influence wave deposition.(3 marks)

5. (a) List the three types of dunes. (3 marks)

(b) Identify two processes through which wind transports materials in arid areas. (2 marks)

SECTION B

Answer question 6 and any other two questions from this section.

6. Study the map of Taita Hills 1:50,000 (sheet 189/4) provided and answer the following questions.

(a) (i) Give the four figure grid reference of the trigonometrical station (2208m). (1 mark)

(ii) What is the general direction of the flow of River Voi (Goshi)? (1 mark)

(b) (i) Measure the length of the road labelled A23. Give your answer in kilometres. (2 marks)

(ii) Citing evidence from the map, identify three social services offered in the area covered by the map. (6 marks)

(c) Describe the relief of the area covered by the map. (7 marks)

(d) Citing evidence front the map, explain four factors that may have influenced agricultural activities in the area. (8 marks)

7. (a) (i) What is a rock? (2 marks)

(ii) Give Evo examples of plutonic igneous rocks. (2 marks)

(b) Describe the processes of formation of each of the following types of sedimentary rocks:

(i) Mechanically formed.(4 marks)

(ii) Organically formed.(4 marks)

(c) State the characteristics of rocks.(5 marks)

(d) You are planning to carry out a field study on rocks within the local environment.

(i) List three methods you would use to record data.(3 marks)

(ii) State three problems you are likely to encounter.(3 marks)

(iii) Give Evo economic uses of rocks you are likely to identify. (2 marks)

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8. (a) (i) Identify the two types of earthquake waves.(2 marks)
(ii) Describe the two ways through which the strength of an earthquake is measured.(2 marks)
(b) (i) Explain how vulcanicity causes earthquakes.(6 marks)
(ii) Name three major earthquake zones of the world.(3 marks)
(c) Explain four effects of earthquakes on the human environment.(8 marks)
9. (a) Name two types of landslides.(2 marks)
(b) Explain how each of the following factors influence mass wasting:
(i) Climate(6 marks)
(ii) Slope(2 marks)
(c) (i) State four causes of soil creep.(4 marks)
(ii) Using a diagram, describe the process of solifluction.(5 marks)
(d) You intend to carry out a field study on the effects of mass wasting within the local environment.
(i) Give two methods of data collection that you would use for the study. (2 marks)
(ii) State two negative effects of mass wasting on the physical environment that you are likely to identify. (2 marks)
(iii) Give two follow-up activities you would be involved in after the field study. (2 marks)
10. (a) (i) Name the three types of river erosion.(3 marks)
(ii) Describe each of the following processes of river erosion:
I. Abrasion(4 marks)
II. Solution(3 marks)
(c) Describe the characteristics of the upper stage of a river.(6 marks)
(d) (i) What is river rejuvenation?(2 marks)
(ii) Give four causes of river rejuvenation.(4 marks)

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(iii) Identify three features that result from river rejuvenation. (3 marks)

2017 Geography Paper 2

SECTION A (30 marks)

Answer all the questions in this section.

1. (a) Identify three counties in Kenya where wheat is grown on a large scale. (3 marks)

(b) State three climatic conditions that affect wheat farming. (3 marks)

2. Give the differences between softwood forests in Kenya and Canada. (4 marks)

3. (a) List three traditional methods of fishing. (3 marks)

(b) Give three similarities of fishing in Kenya and Japan. (3 marks)

4. State four disadvantages of solar energy. (4 marks)

5. (a) Name two types of water transport. (2 marks)

(b) Give three challenges facing railway transport in East Africa. (3 marks)

SECTION B

Answer question 6 and any other Iwo questions from this section.

6. The table below shows the number of visitors in '000 to selected national parks in Kenya for the years 2006 to 2008. Use it to answer the questions that follow.

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Park/Yr	2006	2007	
Nairobi	102	93	
Amboseli	153	156	
Tsavo	354	372	
Lake Nakuru	327	347	
TOTAL	946	968	

(a) (i) What is the difference in the number of visitors who visited the parks in 2006 and those in 2008. (2 marks)
(ii) Calculate the percentage increase in the number of visitors who visited Lake Nakuru National Park between 2006 and 2007. (2 marks)
(b) (i) Draw a compound bar graph to represent the number of visitors to selected national parks in Kenya. Use the scale of 1 cm to represent 100,000 visitors. (10 marks)
(ii) State three advantages of using compound bar graphs to represent geographical data. (3 marks)
(c) Explain four problems associated with tourism in Kenya. (8 marks)
7. (a) (i) What is beef farming? (2 marks)
(ii) Identify five factors that favour beef farming in Kenya. (5 marks)
(b) State six features of nomadic pastoralism in Kenya. (6 marks)
(c) Give reasons why beef production is higher in Argentina than Kenya. (6 marks)
(d) Explain the role played by beef farming to the economy of Kenya. (6 marks)

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8. (a) Apart from irrigation, give four methods of land reclamation in Kenya. (4 marks)
(b) Explain four physical factors which influenced the location of Mwea irrigation (8 marks)
(c) (1) Name three crops grown in the polders in Netherlands. (3 marks)
(ii) Describe the stages of reclamation of land from the sea in the Netherlands. (6 marks)
(d) State four benefits of land reclamation in the Netherlands.
9. (a) Explain the following types of settlement patterns
• Dispersed settlement pattern
• Nucleated settlement pattern (b) State four problems facing the city of Nairobi. (4 marks)
(c) State factors which led to the growth of Kisumu as a lake Port. (7 marks)
(d) Explain four ways in which the Port of Mombasa differs from Roterdam Port. (8 marks)
10. (a) Define the term environmental management. (2 marks)
(b) (i) Name two areas in Kenya that are prone to lightening. (2 marks)
(ii) State four problems caused by lightening. (4 marks)
(iii) Explain three ways in which the menace of pests can be controlled in Kenya.
(c) Give the measures that the government of Kenya has taken to conserve the environment.(6 marks)
(d) Your class intends to carry out a field study in the limestone mining areas.(6 marks)
(i) Identify two types of pollution that they may observe. (2 marks)
(ii) What problems are they likely to encounter during the study? (3 marks)

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2018 Geography Paper 2

SECTION A

Answer all the questions in this section.

1. (a) Name two categories of fish.(2 marks)

(b) Identify three methods of fishing that are used for deep sea fishing.(3 marks)

2. (a) Give three tourist attractions found in the lake region of Kenya.(3 marks)

(b) State three reasons why domestic tourism is encouraged in Kenya. (3 marks)

3. (a) Name three places in Kenya where geothermal energy has potential of being harnessed.(3 marks)

(b) State three physical factors that have favoured high Hydro-Electric Power production in Uganda.(3 marks)

4. (a) Give two trading blocs in Africa. (2 marks)

(b) Identify three political problems facing regional trading blocs in Africa. (3 marks)

5. List three environmental hazards that are caused by human activities. (3 marks)

SECTION B

Answer question 6 and any other two questions from this section.

6. Study the data provided below and answer the questions that follow.

Value of export earnings of selected crops from Kenya (Ksh millions)

Crop	**2012**	**2013**	**2014**
Tea	104141	104648	93996

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Coffee	22271	16328	19913
Sisal	1184	1020	1325
Total	124896	121996	115234

(a) (i) Using a scale of 1 cm to 50,000 million, draw proportional circles to represent the total export earnings between 2012 and 2014. Use the diameter method. (10 marks)

(ii) Calculate the percentage decline in export value between 2012 and 2013. (2 marks)

(b) (i) What conclusion on value of exports can you make from the proportional circles? (3 marks)

(ii) State four disadvantages of using proportional circles to represent the export values.(4 marks)

(c) Explain how international trade in Kenya can be improved. (6 marks)

7. (a) (i) Define the term mining.(2 marks)

(ii) State four factors that influence the occurrence of minerals.(4 marks)

(b) Describe the open cast method of mining.(5 marks)

(c) The map below shows location of minerals in East Africa. Use it to answer question (e) (i).

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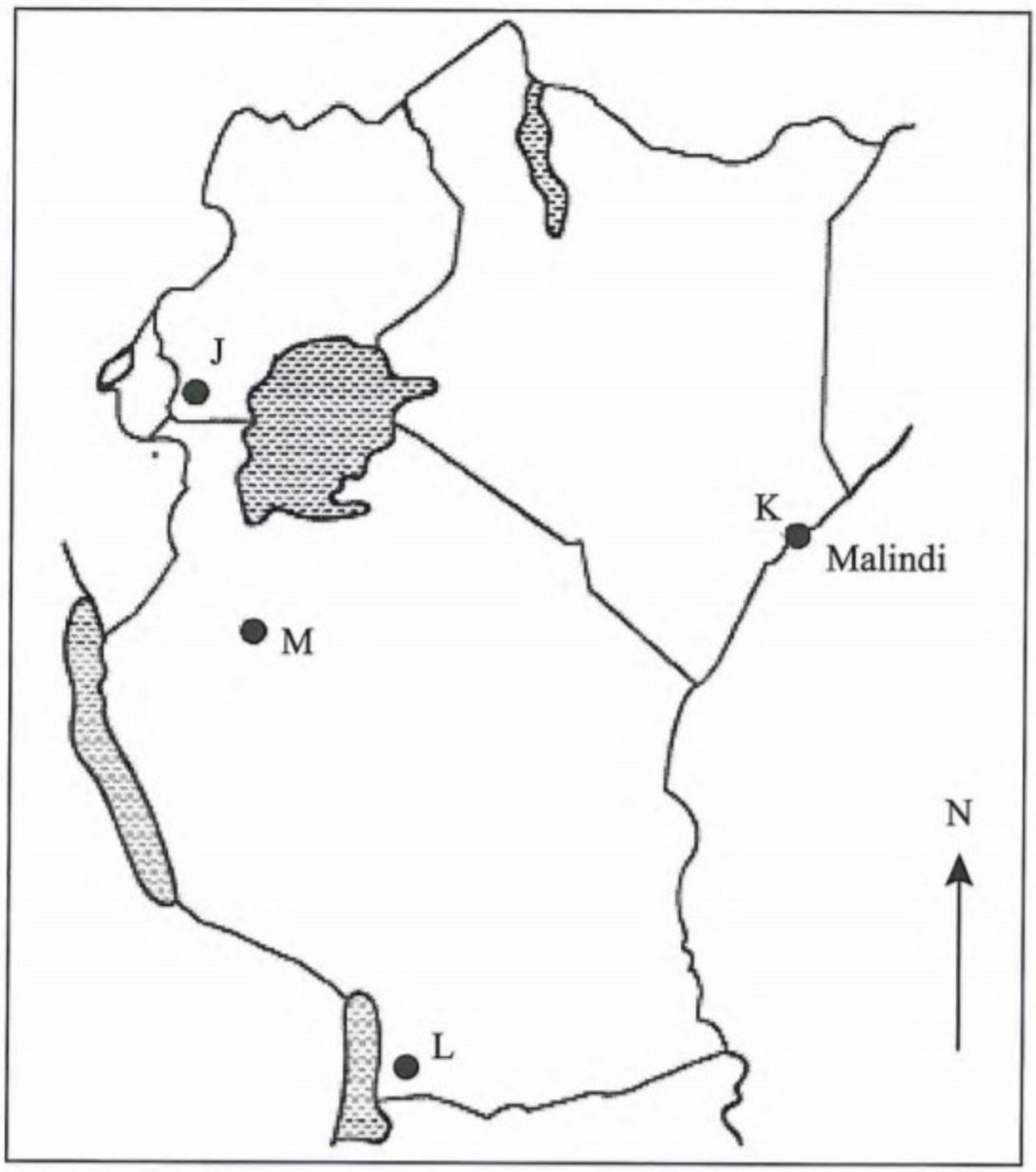

(i) Name the minerals found in areas marked J, K, L and M(4 marks)

(ii) Describe the processing of Trona in lake Magadi.(4 marks)

(d) Explain three ways in which mining promotes industrialisation in Kenya. (6 marks)

8. (a) (i) What is forestry?(2 marks)

(ii) Apart from tropical hardwood forests, name two other types of natural forest.(2 marks)
(iii) State the problems experienced in exploitation of tropical hardwood forests.(5 marks)
(b) List the characteristics of planted forests in Kenya.(5 marks)
(c) Explain three factors that favour forestry in Canada.(6 marks)
(d) Give five measures that the government has taken to conserve and manage forests in Kenya.(5 marks)
9. (a) Explain each of the following methods of land rehabilitation:
(i) Mulching(4 marks)
(ii) Bunds and gabions(6 marks)
(b) Give three ways in which the government is trying to rehabilitate overgrazed lands in Kenya.(3 marks)
(c) (i) Name four types of irrigation practised in Kenya.(4 marks)
(ii) Explain two conditions that favour irrigation farming in Kenya.(4 marks)
(d) Give the characteristics of land reclamation in Kenya.(4 marks)
10. The pyramids below represent the population structure of Kenya and Sweden in the year 2009.
Use them to answer question
POPULATION PYRAMIDS 2009

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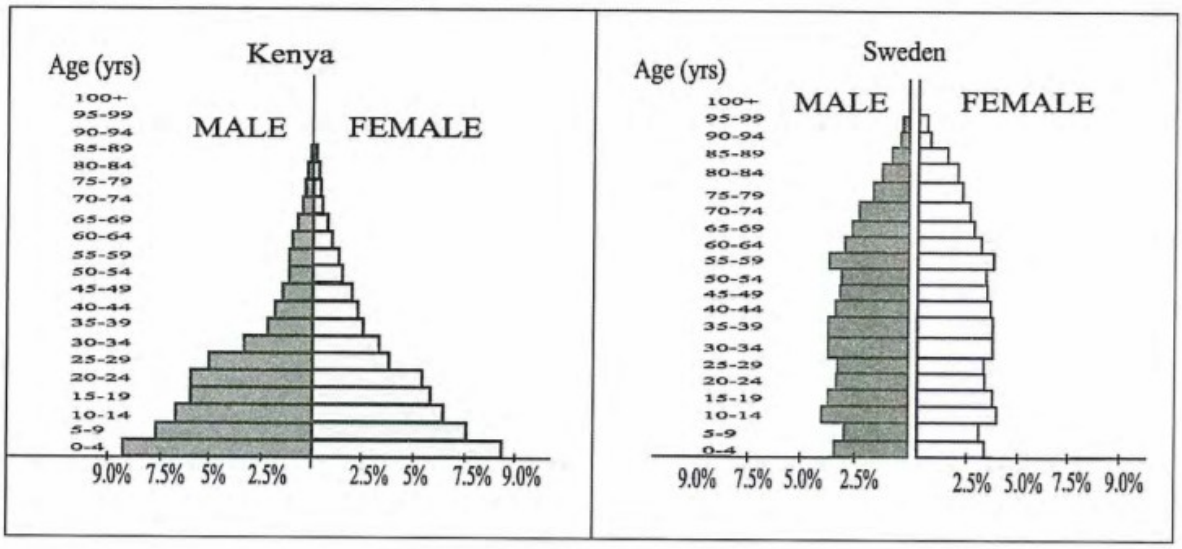

(a) Describe the characteristics of population of the two countries as represented by the pyramids. (6 marks)

(b) (i) What is fertility rate? (2 marks)

(ii) Explain three factors that have contributed to the reduction in fertility rate in Kenya. (3 marks)

(c) State three problems caused by slow population growth rate in developed countries. (3 marks)

(d) Explain four causes of rural-rural migration in Kenya. (8 marks)

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